

PB 288 961

NHTSA Technical Report
DOT HS-803-530

CALIBRATION OF THREE YEAR OLD CHILD DUMMIES

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16. Abstract Tests were performed to develop appropriate calibration procedures to measure the dynamic response of a three-year-old dummy using acceleration measurements. The calibration procedure consisted of four parts: Part I Head Impact tests, Part II Chest Impact tests, Part III Head-Neck-Pendulum tests, and Part IV Lumbar Spine Flexion tests. The data from the Head Impact test, Head-Neck-Pendulum tests and the Lumbar Spine Flexion tests gave repeatable data. The data from the Chest Impacts were inconsistent.					
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METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
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LENGTH

in	inches	2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km

AREA

in ²	square inches	6.5	square centimeters	cm ²
ft ²	square feet	0.09	square meters	m ²
yd ²	square yards	0.8	square meters	m ²
mi ²	square miles	2.6	square kilometers	km ²
	acres	0.4	hectares	ha

MASS (weight)

oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	tonnes	t

VOLUME

tsp	teaspoons	5	milliliters	ml
Tbsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft ³	cubic feet	0.03	cubic meters	m ³
yd ³	cubic yards	0.76	cubic meters	m ³

TEMPERATURE (exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
----	------------------------	----------------------------	---------------------	----

Approximate Conversions from Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
--------	---------------	-------------	---------	--------

LENGTH

mm	millimeters	0.04	inches	in
cm	centimeters	0.4	inches	in
m	meters	3.3	feet	ft
km	kilometers	0.6	miles	mi

AREA

cm ²	square centimeters	0.16	square inches	in ²
m ²	square meters	1.2	square yards	yd ²
km ²	square kilometers	0.4	square miles	mi ²
ha	hectares (10,000 m ²)	2.5	acres	

MASS (weight)

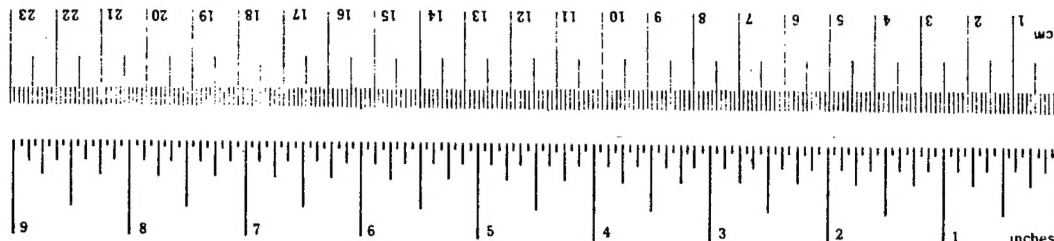
g	grams	0.035	ounces	oz
kg	kilograms	2.2	pounds	lb
t	tonnes (1000 kg)	1.1	short tons	

VOLUME

ml	milliliters	0.03	fluid ounces	fl oz
l	liters	2.1	pints	pt
l	liters	1.06	quarts	qt
l	liters	0.26	gallons	gal
m ³	cubic meters	35	cubic feet	ft ³
m ³	cubic meters	1.3	cubic yards	yd ³

TEMPERATURE (exact)

°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature	°F
----	---------------------	-------------------	------------------------	----



*1 m = 2.54 inches (ex.) For other exact conversions, and more detailed tables, see *SI Units*, Publ. 298, Units of Weights and Measures, Price \$2.25, NIST Catalog No. C 1.1.10.298.

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1. INTRODUCTION

This test program was performed in response to a request from the Office of Crashworthiness (OCW), National Highway Traffic Safety Administration (NHTSA).

1.1 Purpose

The objective of this test program was to develop appropriate procedures to measure the dynamic response of a three-year-old dummy using acceleration measurements.

2. DISCUSSION

2.1 Part I - Head Impact Tests

2.1.1 Test Procedures

The three-year-old dummy was positioned in an upright sitting position with the dummy's back supported by a rigid backstop (Figure 1). To position the dummy for impact the lower legs were bent down and the dummy's back was placed firmly against the back stop. The lower legs were then extended straight out in front of the dummy and two rods placed under the legs to hold them in position. The arms were also extended straight out in front of the dummy. The forehead was impacted at the vertical tangent point in the midsagittal plane, 2.9 inches below the top of the head, at a velocity of 7 fps. The face of the test probe was vertical at impact (Figures 2 and 3). Details of the test probe are shown in Figure 4. A modified accelerometer mount (Figures 5, 6 and 7) was installed in the head cavity to reduce the ringing effect which was prevalent with the original accelerometer mount. Figure 8 shows a typical head impact setup.

2.2.2 Test Equipment

Triaxial Accelerometer, Model 7267C, Endevco Corp.

Accelerometer, Model 7232C, Endevco Corp.

Computer, Model 6-103, Varian Instruments

Oscillograph, Model 1858, Honeywell Corp.

Light Trap, Model 32-37-15, Bausch & Lomb

Scale: 0.125 inch = 1 inch

Dimensions are in inches

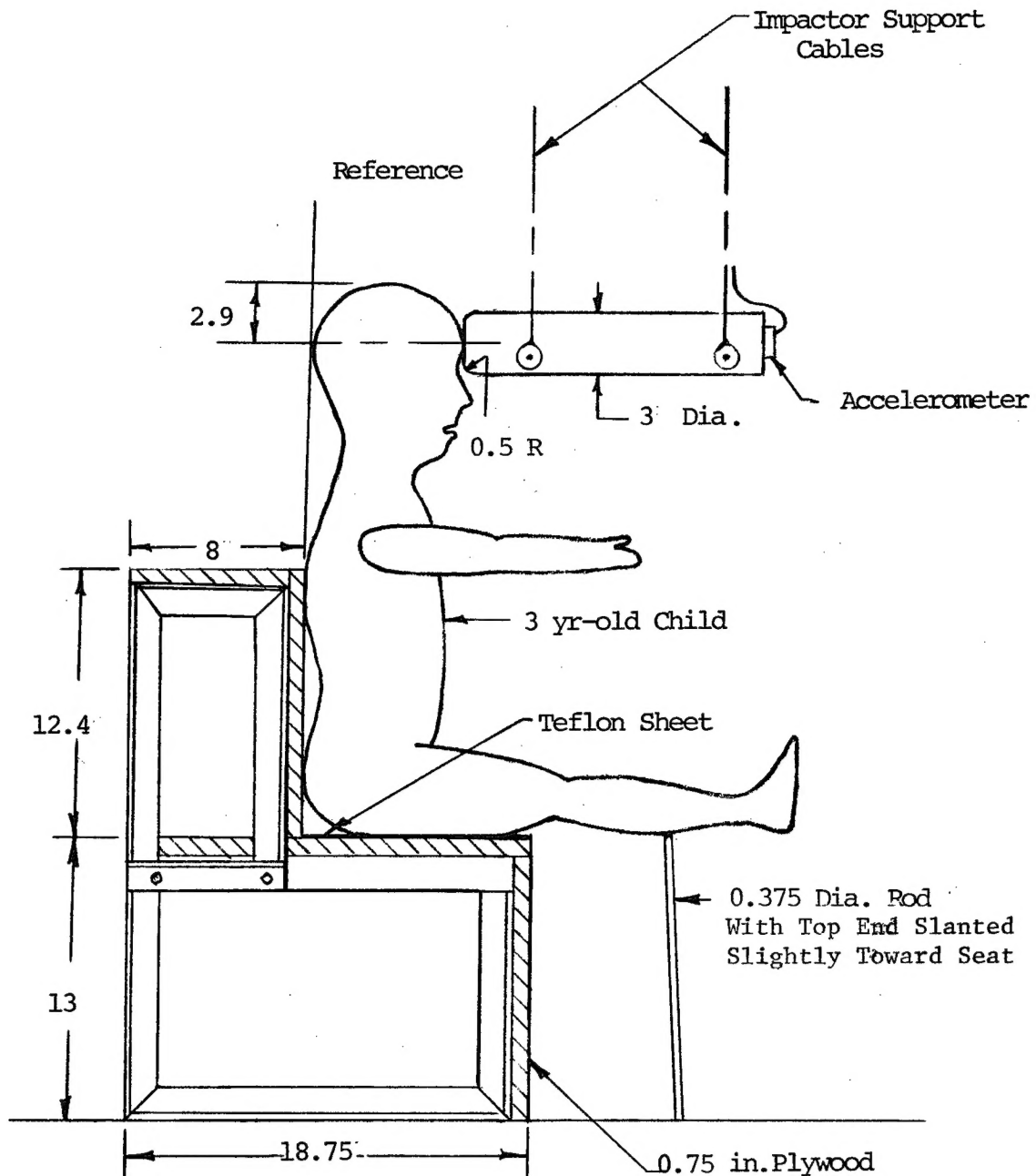


FIGURE 1

HEAD IMPACT TEST CONFIGURATION

Scale: 0.5 inch = 1 foot

Dimensions are in inches

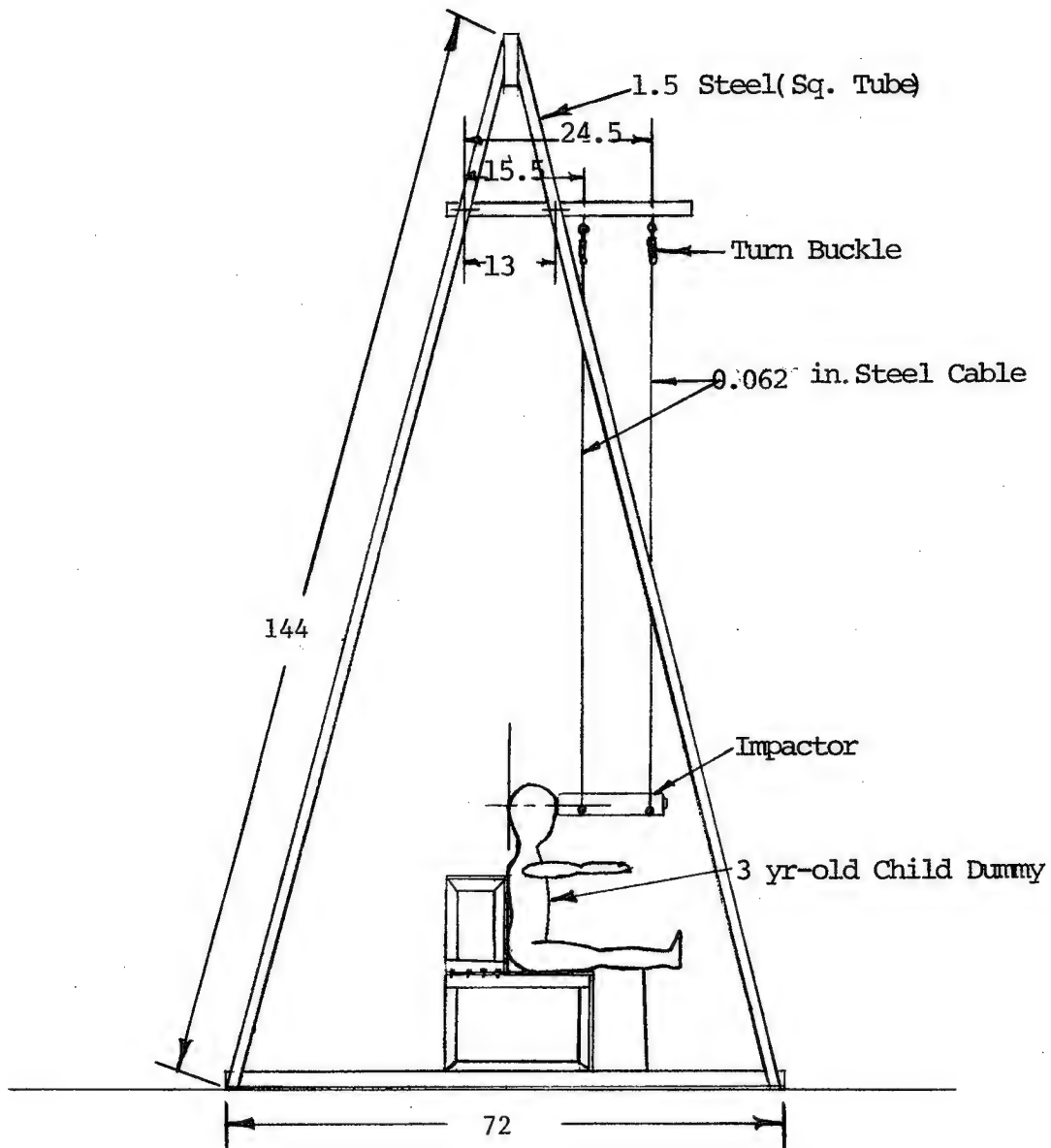


FIGURE 2

HEAD-CHEST IMPACT TEST FRAME, SIDE VIEW

Scale: 0.5 inch = 1 foot

Dimensions are in inches

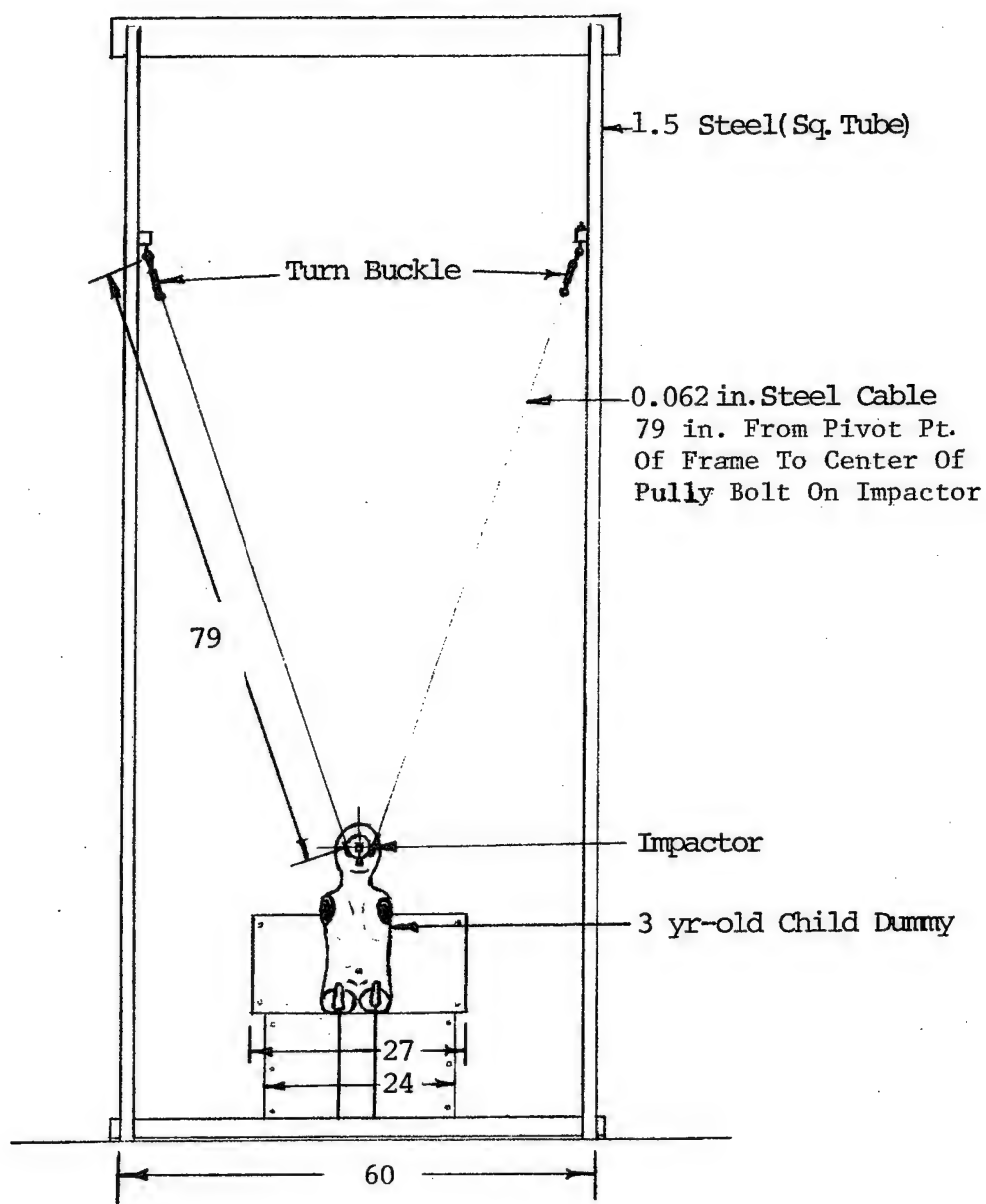
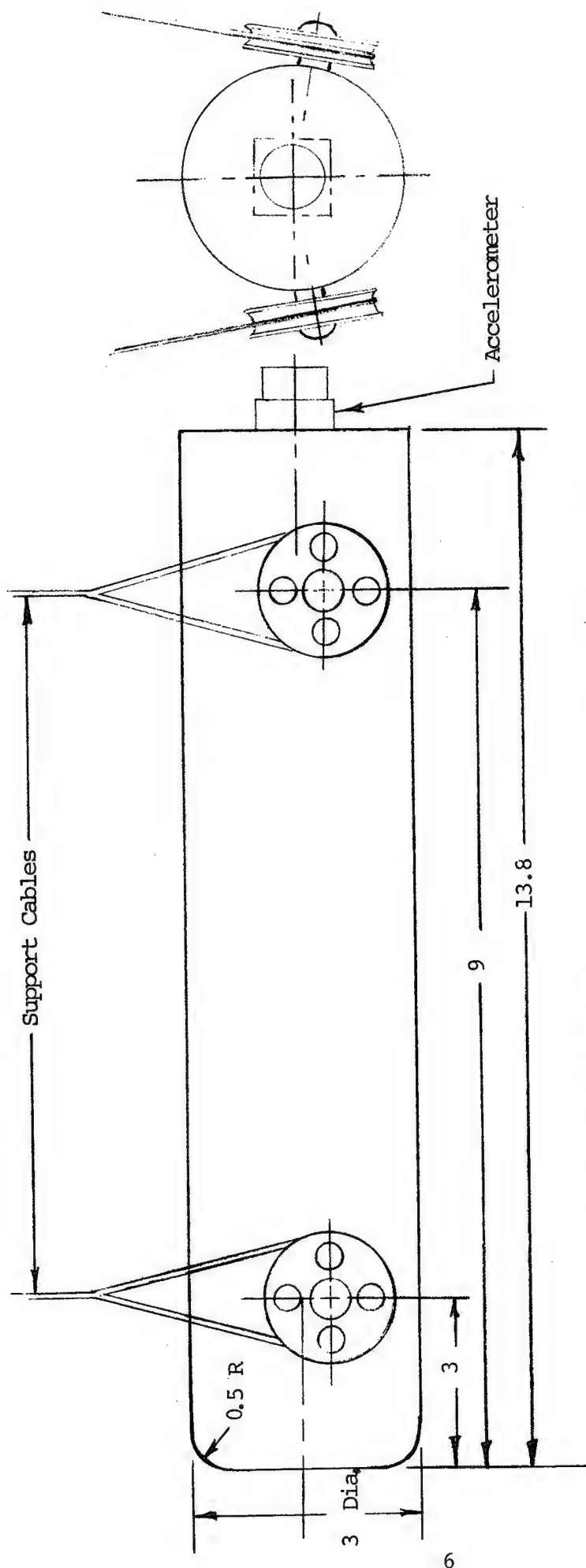


FIGURE 3

HEAD-CHEST IMPACT TEST FRAME, FRONT VIEW



Scale: 0.5 inch = 1 inch
Dimensions are in inches

Impactor Weight - 10 lbs 7.5 oz
(6064 Aluminum)

FIGURE 4

HEAD-CHEST TEST PROBE

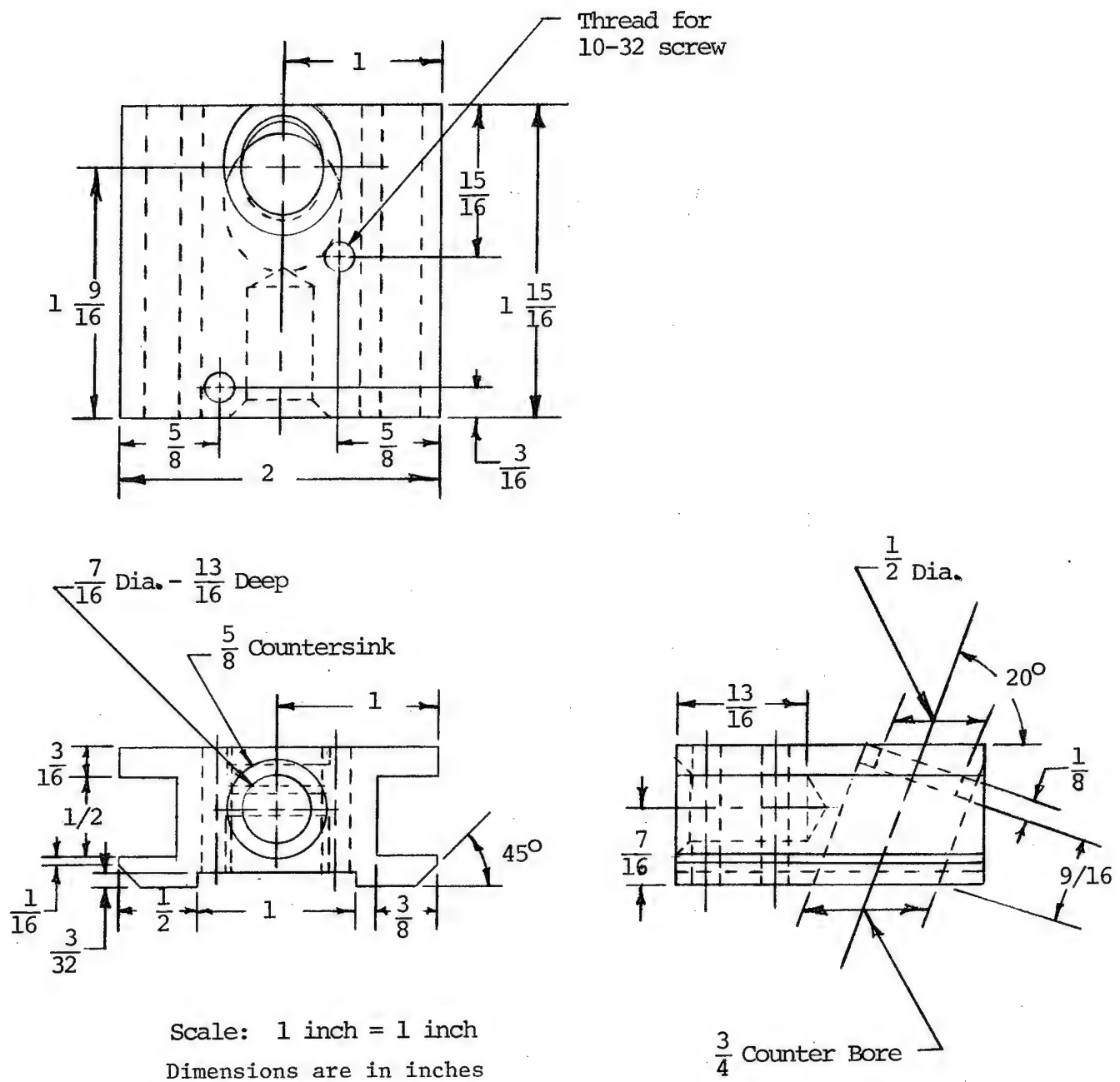
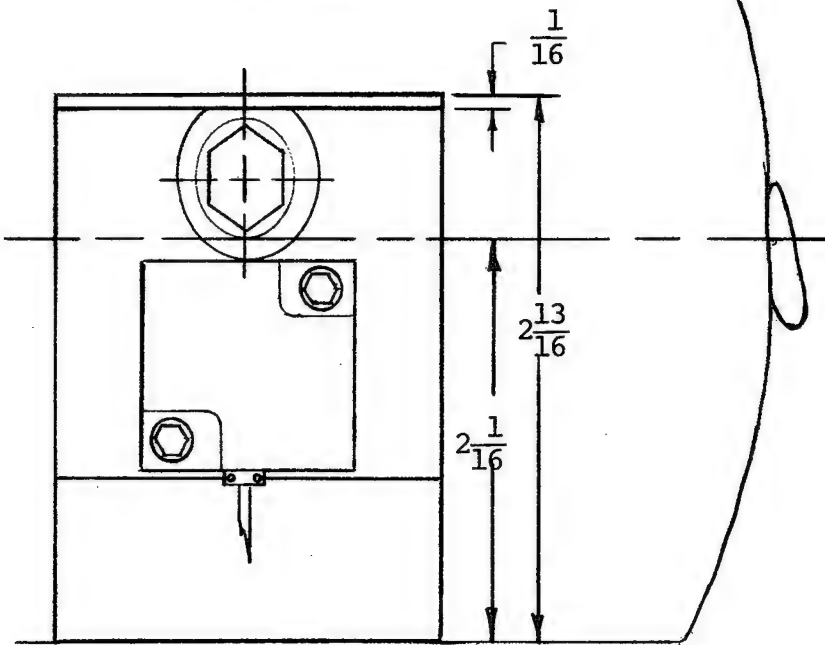


FIGURE 5

HEAD ACCELEROMETER MOUNT

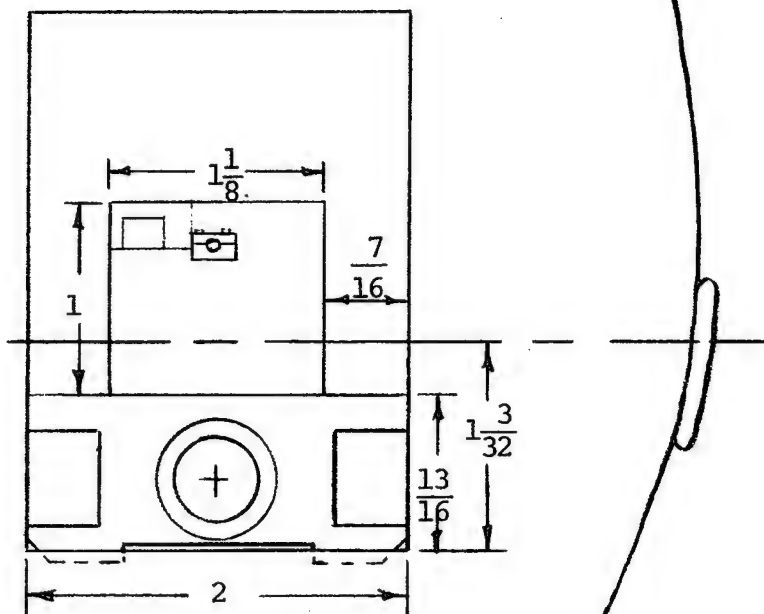
Top View



Head from
3 yr-old Child

Wire out back of
Accelerometer

Rear View



Scale: 1 inch = 1 inch
Dimensions are in inches

Side View

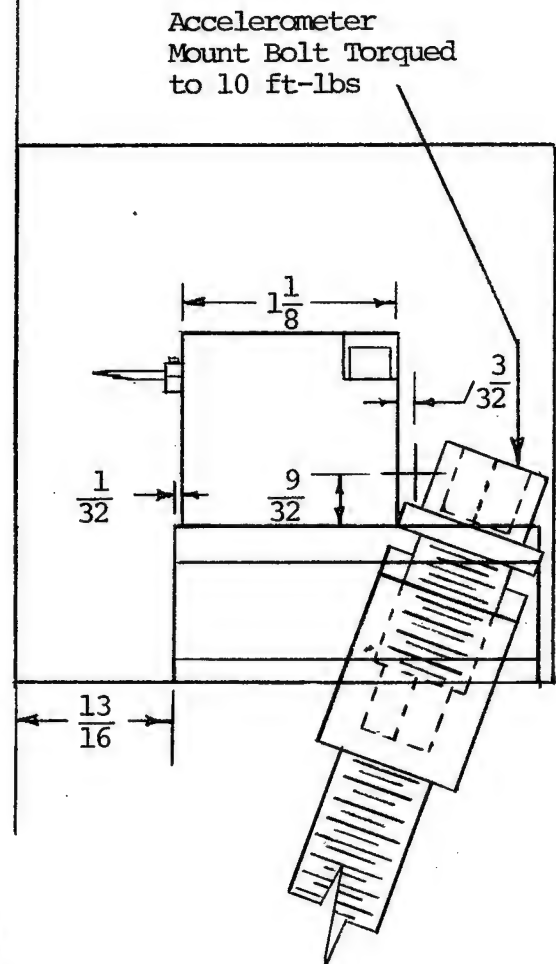
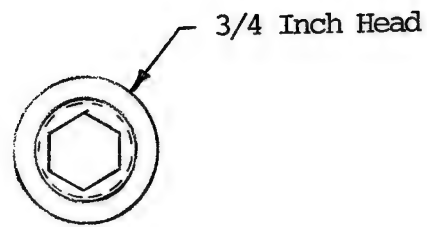
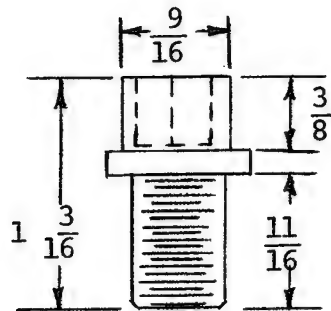


FIGURE 6

HEAD ACCELEROMETER MOUNT INSTALLED

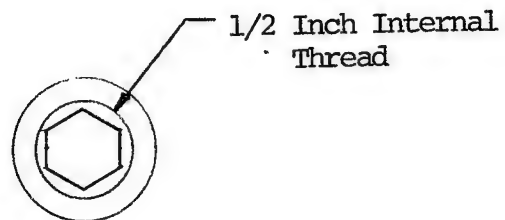
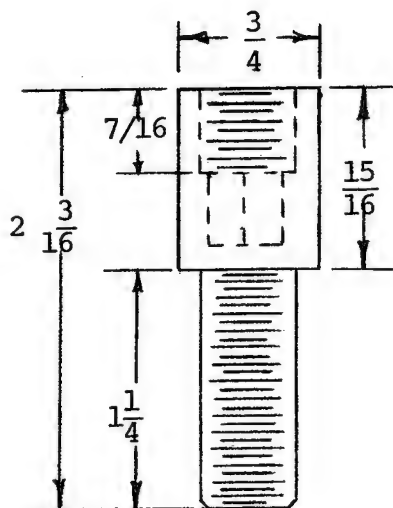
Scale: 1 inch = 1 inch

Dimensions are in inches



1/2 Inch Allen Bolt

(Secures Accelerometer Mount to Neck Bolt)



1/2 Inch Allen Bolt

(Secures Head to Neck)

Neck Bolt

FIGURE 7

ACCELEROMETER MOUNT INSTALLATION BOLTS

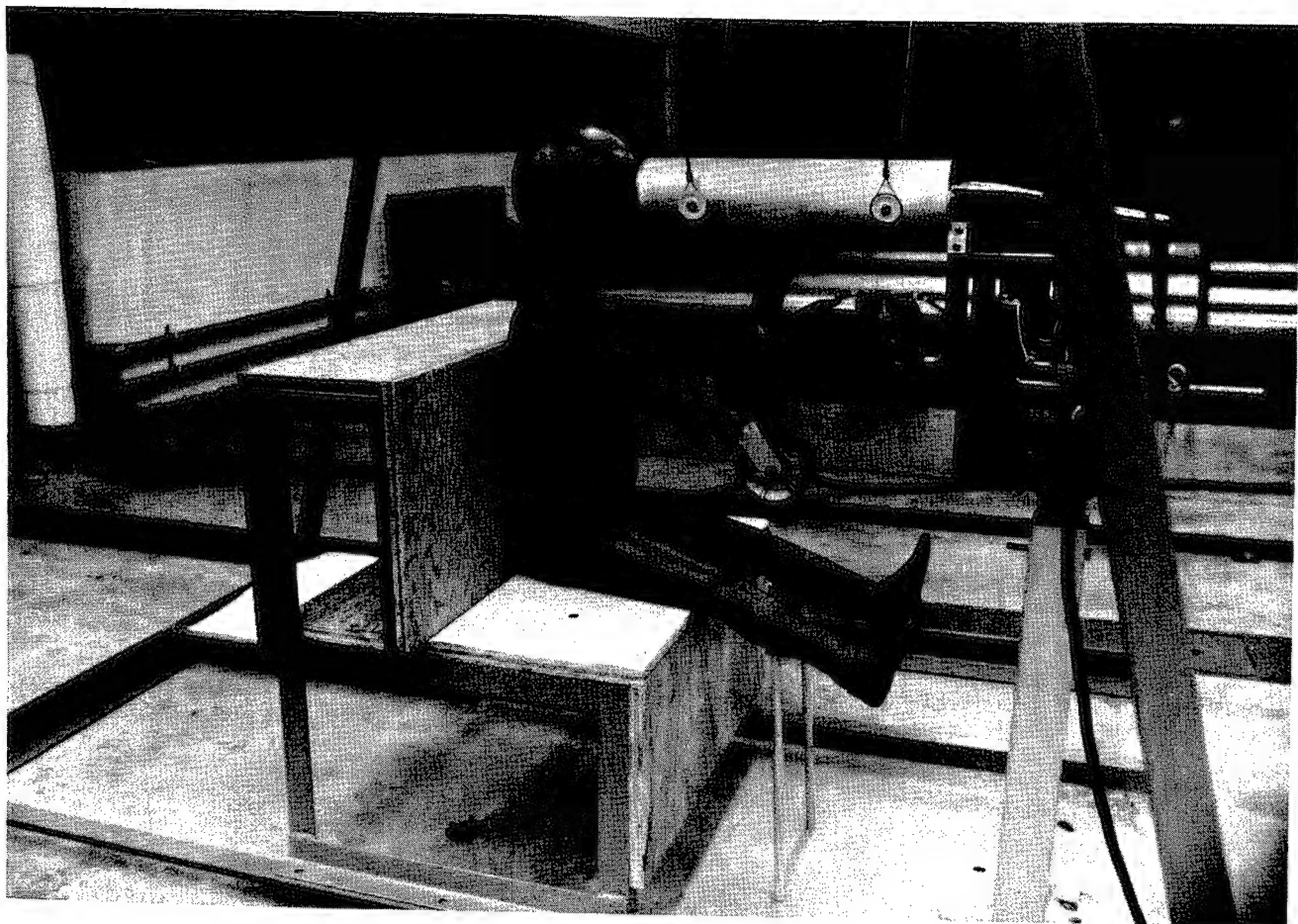


FIGURE 8

Typical Head Impact Test Setup

2.2 Part II - Chest Impact Tests

2.2.1 Test Procedure

The three-year-old dummy was positioned in an upright sitting position, not supported with a backstop (Figures 9 and 10). The chest impact points were 10 3/4 and 11 1/4 inches below the top of the head and in the midsagittal plane. With the test probe in the free hanging position, the dummy was tilted forward until the impact point just touched the center of the test probe. In this position the surface of the dummy's chest was paralalled to the front face of the test probe. The dummy's arms and legs were extended straight out for these tests. The impact velocity of the test probe was adjusted to a nominal 10 feet per second.

2.2.2 Test Equipment

Triaxial Accelerometer, Model 7267C, Endevco Corp.

Accelerometer, Model 7232C, Endevco Corp.

Computer, Model 620-L-103, Varian Instrument

Oscillograph, Model 1858, Honeywell Corp.

Light Trap, Model 32-37-15, Bausch & Lomb

Scale: 0.125 inch = 1 inch

Dimensions are in inches

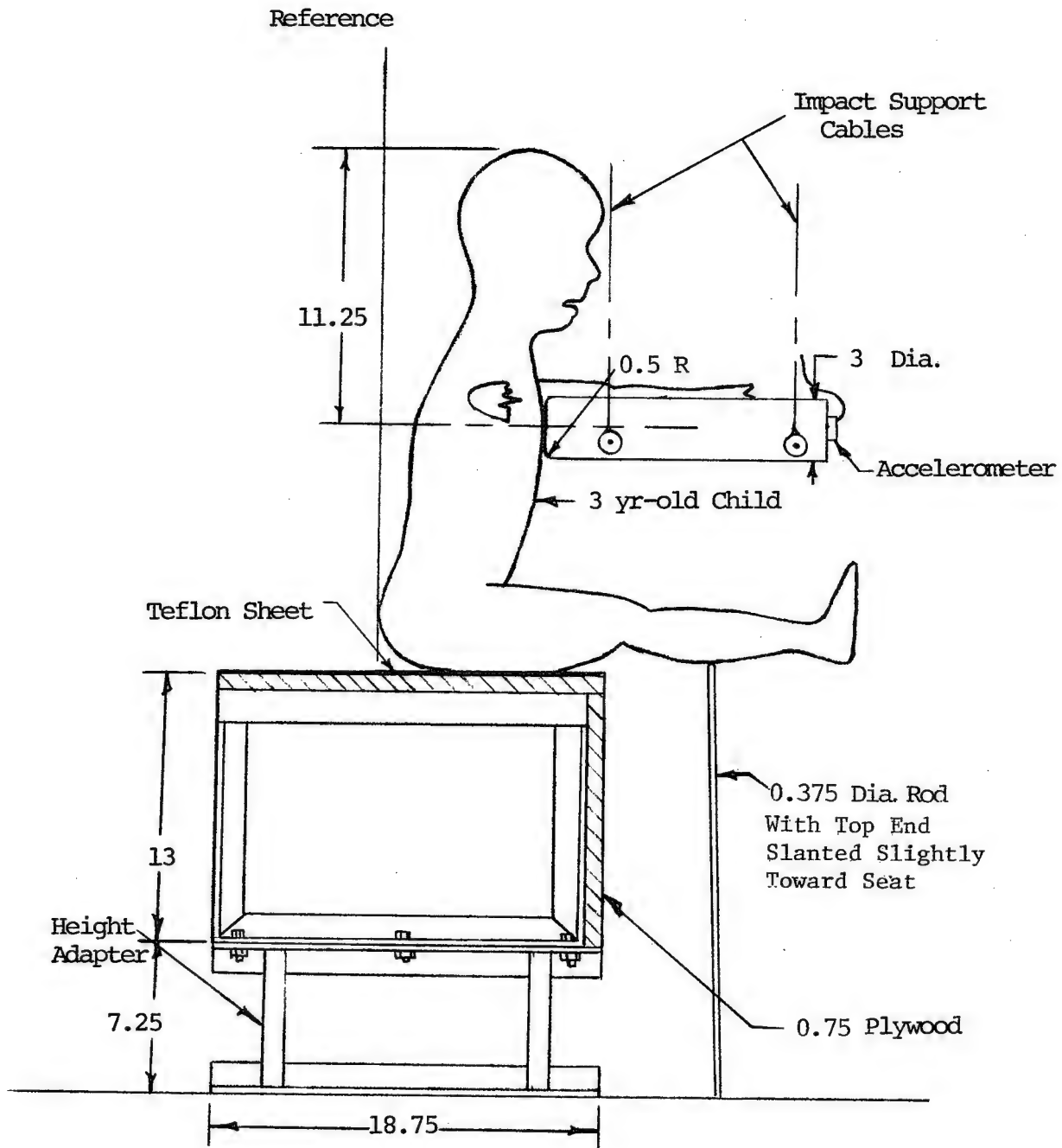


FIGURE 9

CHEST IMPACT TEST CONFIGURATION

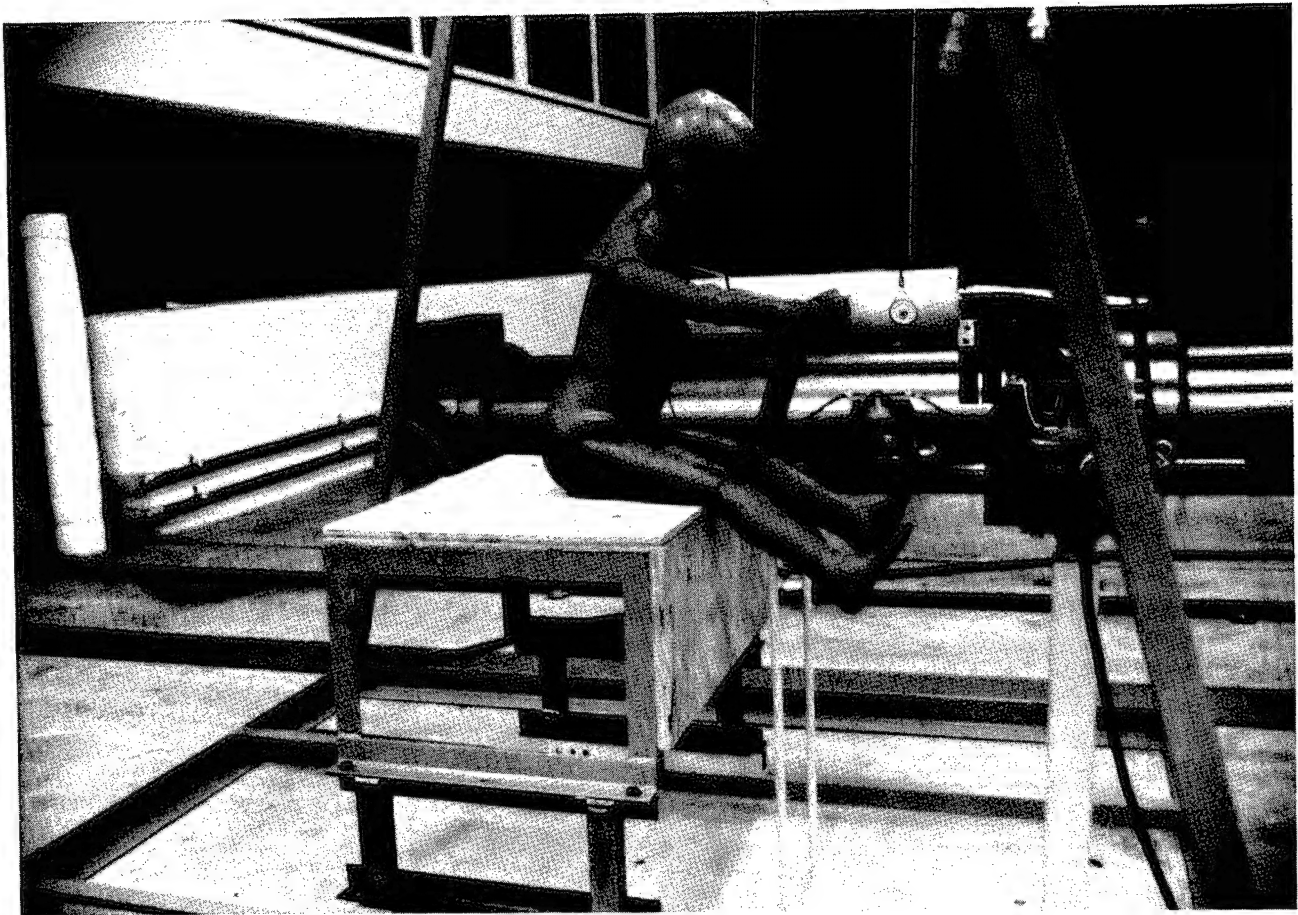


FIGURE 10
Typical Chest Impact Test Setup

2.3 Part III - Head-Neck Pendulum Impact

2.3.1 Test Procedure

The head and neck of the three-year-old dummy was mounted on the Part 572 Head-Neck Pendulum in a manner similar to that used for an adult dummy (Figures 11 and 12). A special attachment plate was required for the smaller head (Figure 11). The pendulum impacted the 4x4x6 inch aluminum Honeycomb with a velocity of 17.25 to 17.5 feet per second. High speed film of the impact was taken and analyzed for chordal displacement of the neck.

2.3.2 Test Equipment

Triaxial Accelerometer, Model 7267C, Endevco Corp.

Accelerometer, Model 7232C, Endevco Corp.

Camera, Model 41-0004, Hycam 400, Red Lake Labs.

Computer, Model 620-L-103, Varian Instruments

Oscillograph, Model 1858, Honeywell Corporation

Light Trap, Model 32-37-15, Bausch & Lomb

INERTIAL PROPERTIES OF PENDULUM
WITHOUT TEST SPECIMEN.
WEIGHT 65.2 lbs.
MOMENT OF INERTIA 24.5 LB-FT SEC²
ABOUT PIVOT AXIS

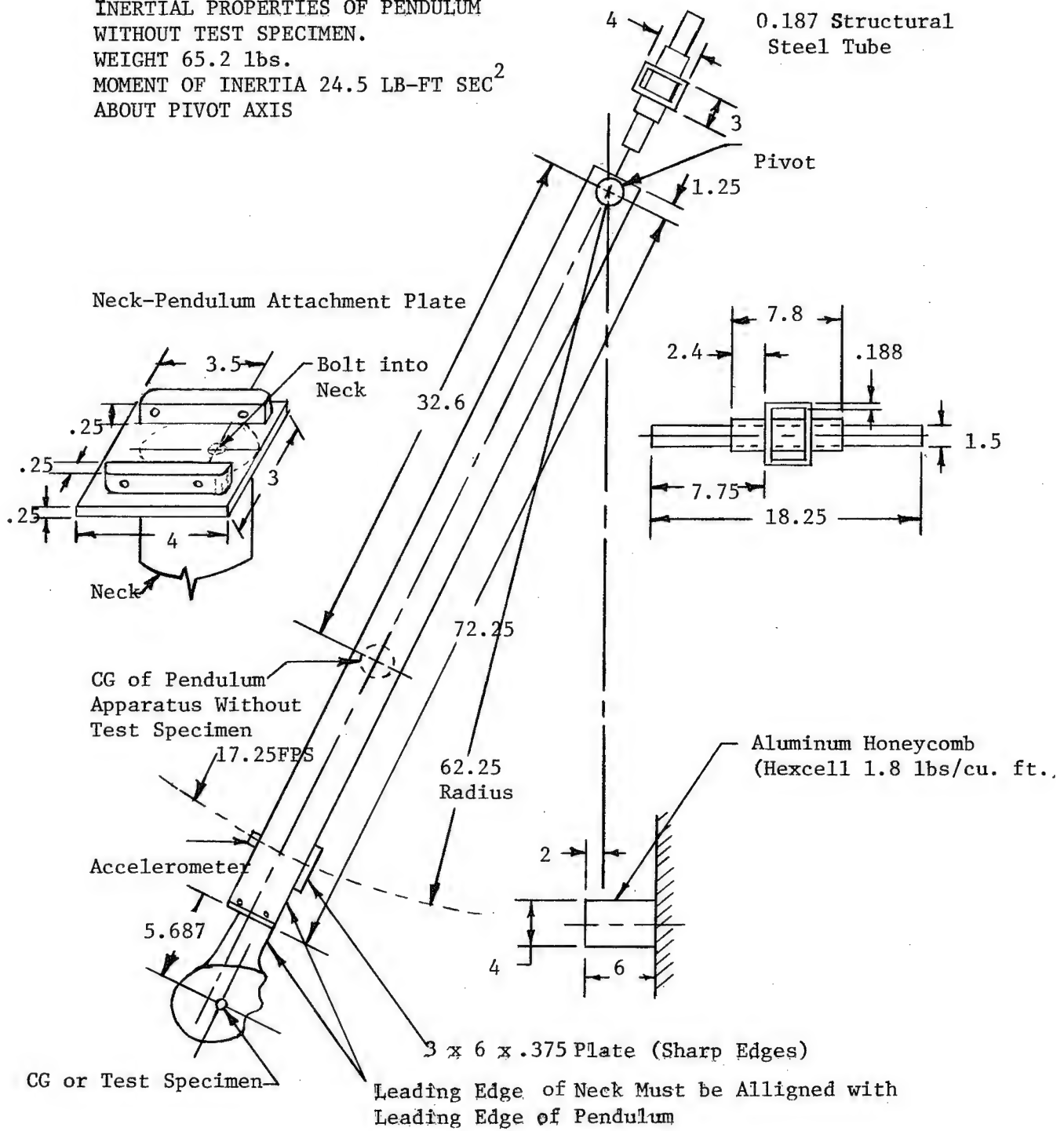


FIGURE 11

Head-Neck Pendulum Test Fixture

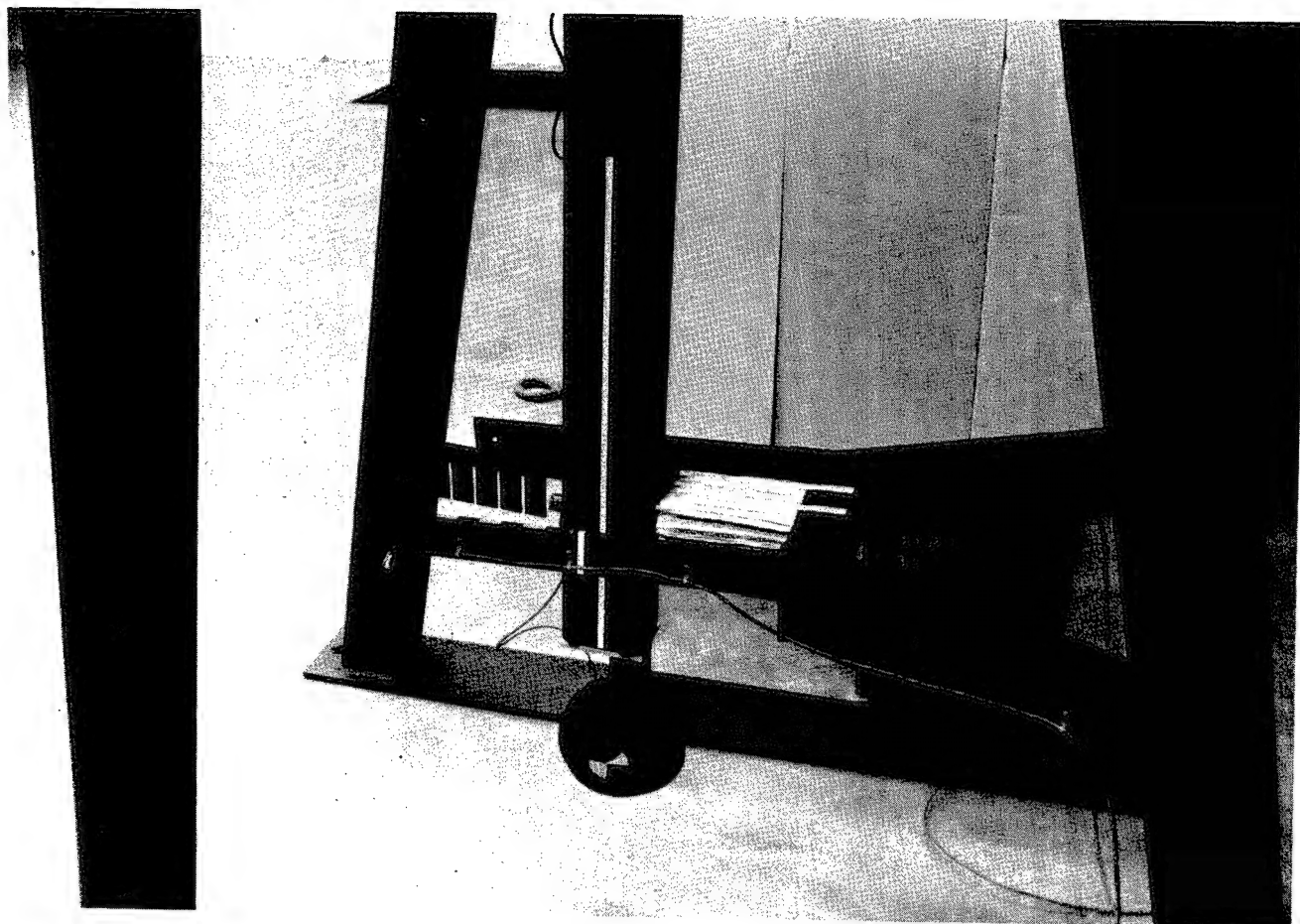


FIGURE 12

Typical Head-Neck Pendulum Impact

2.4 Part IV - Lumbar Spine Flexion Tests

2.4.1 Test Procedure

The three-year-old dummy was positioned in an upright position with the head, neck, arms and lower legs removed (Figures 13 and 14). The pelvis and upper legs were firmly attached to the test table. The force required to maintain a deflection rate of 0.5 to 1.5 degrees per second was applied to the thorax cavity in the forward direction. Both force and deflection were measured throughout the test. At maximum deflection, the dummy was released to determine if the lumbar spine would return to the initial position.

2.4.2 Test Equipment

Force Gauge, Model DPPH-50, Chatillon

Stop Clock, Model SC-100, Industrial Timer Corp.

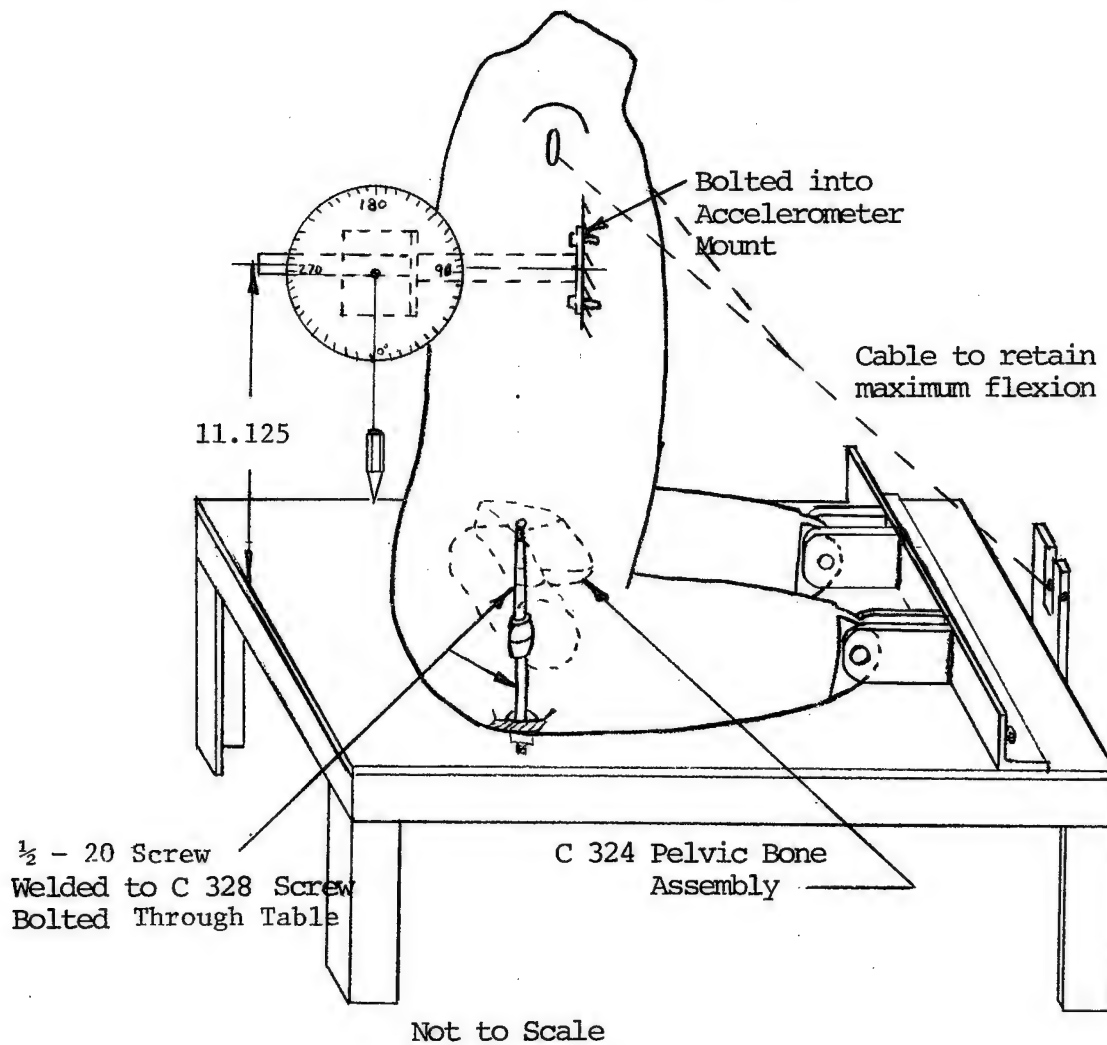
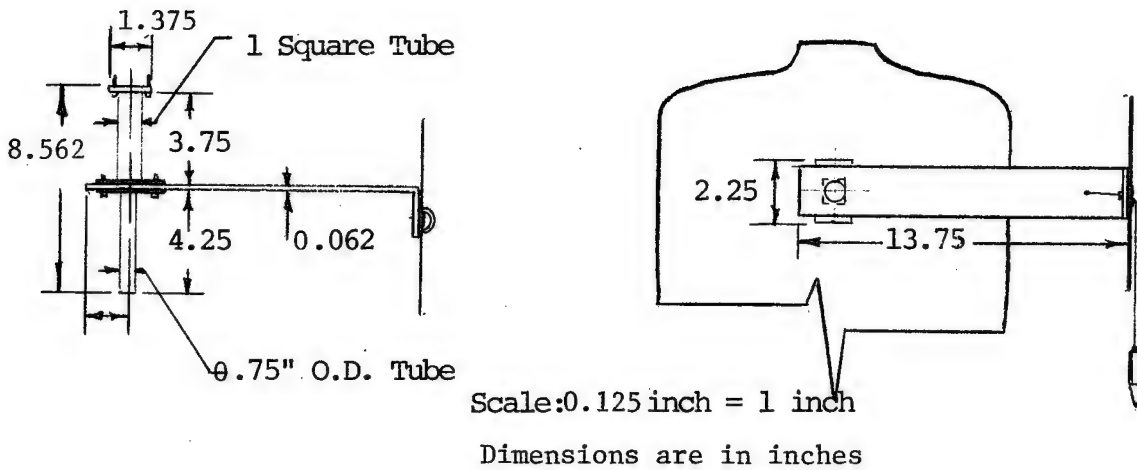


FIGURE 13

LUMBAR SPINE TEST CONFIGURATION

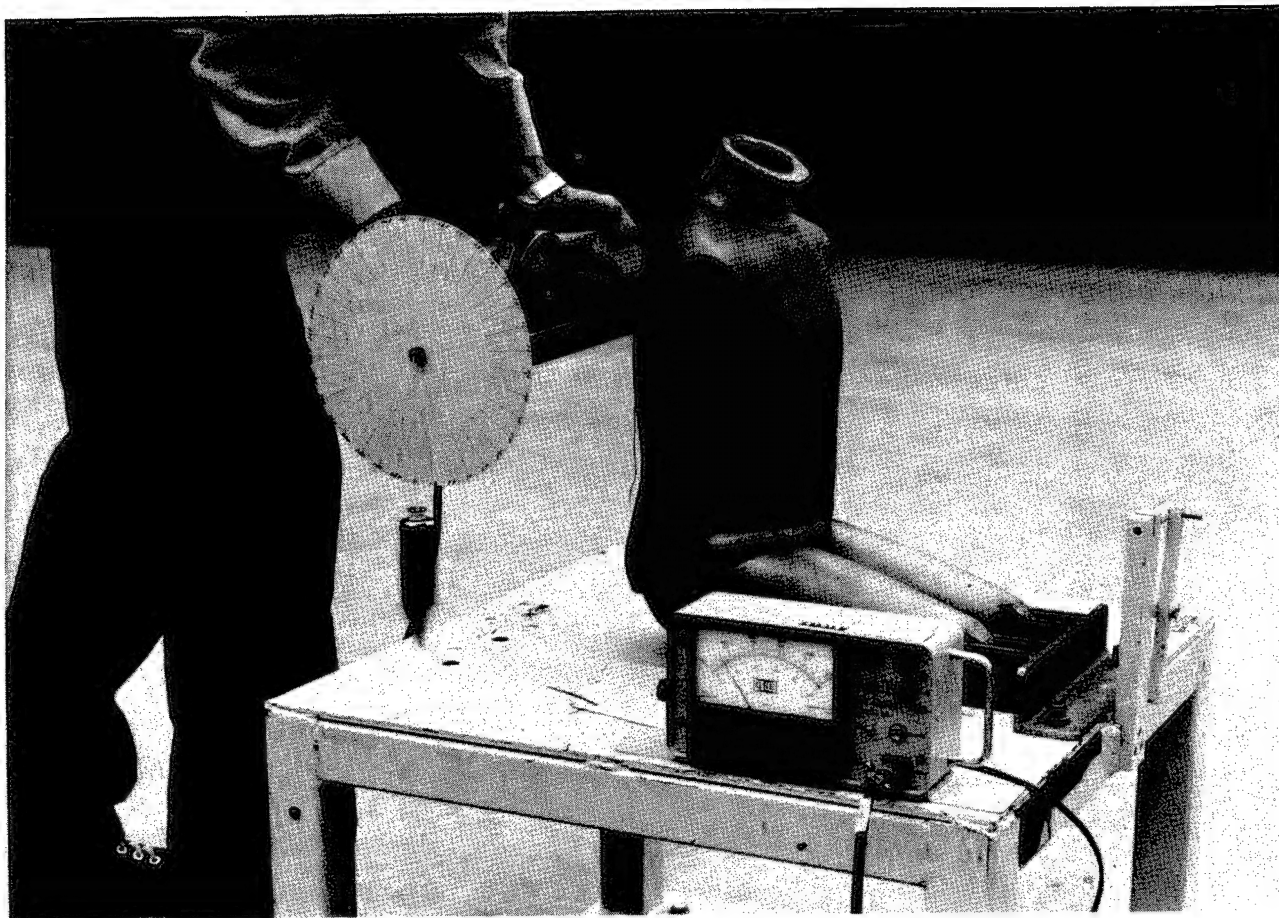


FIGURE 14

Typical Lumbar Spine Flexion Test Setup

3. TEST RESULTS

3.1 Part I - Head Impact Tests

The data from the head impact tests are summarized in Table 1. The computer data are shown in Figures A through L in the Appendix. The resultant peak g's from all four dummies ranged from 95.5 to 106.0 g's with an average of 101.4 g's.

All the head impact tests were performed using the new head accelerometer mount. Dummy No. 32 consistently gave the lowest average acceleration, while dummy No. 31 consistently gave the highest average acceleration. Dummies No. 31 and 32 are older than dummies No. 38 and 39 and this could account for the difference.

TABLE No. 1

HEAD IMPACT SUMMARY

<u>Dummy No.</u>	<u>Time That Resultant Acceleration was above 50 g's (m.s.)</u>	<u>Resultant Acceleration (Peak)</u>	
		<u>1st Peak (g's)</u>	<u>2nd Peak (g's)</u>
31	2.500	105.8	45.4
31	2.375	106.0	44.7
31	2.500	105.9	45.0
32	2.500	95.9	36.2
32	2.500	95.5	37.2
32	2.500	96.0	38.5
38	2.500	100.5	41.1
38	2.625	100.8	41.9
38	2.625	101.1	41.1
39	2.375	103.6	35.0
39	2.375	103.6	34.1
39	2.375	102.6	35.2

3.2 Part II - Chest Impact Tests

The data from the chest impact tests are summarized in Table 2. The data sheets are given in Figures M through AN in the Appendix. The resultant peak acceleration from all four dummies ranged from 47.6 g's to 78.3 g's with an average of 55.95 g's. The time that the resultant peak was above 30 g's ranged from 1.500 ms to 2.625 ms with an average of 2.135 ms for all four dummies.

The test was set up so that the center of the test probe impacted the chest test point first. Any variation in impact point or impact angle caused variation in the data.

TABLE 2

CHEST IMPACT SUMMARY

Dummy No.	Top of Head to Impact Point (ins)	Time That Resultant Acceleration was above 30 g's(m.s.)*	Resultant Acceleration (Peak)	
			1st Peak (g's)	2nd Peak (g's)
31	10 3/4	-	50.6	-
31	10 3/4	-	49.3	-
31	10 3/4	-	54.9	-
Average			51.6	
31	11 1/4	2.0	51.3	-
31	11 1/4	2.125	48.0	19.7
31	11 1/4	2.125	54.1	22.3
Average		2.08	51.13	
32	10 3/4	1.5	78.3	20.4
32	10 3/4	1.25	73.9	18.7
32	10 3/4	1.25	53.4	8.0
32	10 3/4	1.25	50.0	7.8
32	10 3/4	1.625	74.3	7.2
32	10 3/4	1.5	48.0	7.4
32	10 3/4	1.75	46.3	7.8
Average		1.45	60.6	
32	11 1/4	2.625	52.0	17.3
32	11 1/4	2.50	53.8	18.5
32	11 1/4	2.125	47.6	10.3
Average		2.62	51.13	
38	11 1/4	2.25	60.5	16
38	11 1/4	2.375	58.5	13
38	11 1/4	2.375	59.9	17
38	11 1/4	3.625	77.2	35.7
38	11 1/4	2.375	66.3	27.8
38	11 1/4	2.25	73.5	31.3
Average		2.54	65.98	
39	11 1/4	2.5	60.3	26
39	11 1/4	2.25	48.0	13
39	11 1/4	2.625	57.0	22
39	11 1/4	2.375	56.0	22.8
39	11 1/4	2.375	56.0	22.8
39	11 1/4	2.375	54.5	20.8
Average		2.42	55.3	

* Time does not include 2nd peak

3.3 Part III - Head/Neck Pendulum Impact Tests

The chordal displacement data are summarized in Tables 3 and 4. The data sheets are given in Figures A0 through BB in the appendix. Dummies No. 31 and 32 were tested with the original manufacturers accelerometer mount, and dummies No. 38 and 39 with the new accelerometer mount bolted to the neck and torqued to 10 ft-lbs.

The maximum angle of rotation for dummies No. 31 and 32 ranged from 77° to 83° . The maximum angle of rotation for dummies No. 38 and 39 ranged from 77° to 88.5° .

From the acceleration-time pulse of the pendulum, the following time information is given:

The T2-T1 time ranged from 1.500 ms to 2.250 ms for all four dummies.

The T3-T2 time ranged from 18.750 ms to 20.125 ms for all four dummies.

The T4-T3 time ranged from 1.750 ms to 3.875 ms.

Figure 15 shows a typical acceleration-time pulse with T1, T2, T3 and T4 marked.

TABLE 3

HEAD/NECK PENDULUM IMPACT TESTS

<u>Dummy No.</u>	<u>Run No.</u>	<u>Resultant Acceleration (peak g's)</u>	<u>T2-T1 (m.s.)</u>	<u>T3-T2 (m.s.)</u>	<u>T4-T3 (m.s.)</u>	<u>Ave. Accel. T2-T3 (g's)</u>
31	1	29.4	1.500	19.500	1.750	26.600
31	2	29.2	1.500	19.250	2.250	25.900
31	3	29.4	1.500	19.500	2.500	26.100
32	1	28.6	1.500	19.750	2.500	26.000
32	2	30.2	1.500	19.250	2.000	26.400
32	3	29.7	1.500	19.000	2.000	26.400
38	1	26.3	1.625	19.000	1.625	26.641
38	2	25.6	2.250	18.750	2.125	25.971
38	3	25.5	1.750	19.000	1.750	26.287
38	4	26.7	1.625	19.000	1.625	27.161
39	1	25.5	1.625	19.000	1.875	26.864
39	2	25.2	1.625	20.125	3.875	24.747
39	3	25.3	1.625	19.625	3.625	25.259
39	4	25.8	1.500	19.250	1.875	25.987

TABLE 4

HEAD/NECK PENDULUM CHORDAL DISPLACEMENT

<u>Dummy No.</u>	<u>Run No.</u>	<u>Rotation (degrees)</u>	<u>Time (m.s.)</u>	<u>Displacement (ins)</u>
31	1	0	0	0
		30.0	21	1.98
		60.0	36	4.06
		80.5	59	5.19
		60.0	80	4.34
		30	101	2.12
		0	118	0.27
31	2	0	0	0
		30.0	23	2.55
		60.0	38	4.46
		79.0	64	5.51
		60.0	87	4.19
		30.0	103	2.48
		0	121	0.17
31	3	0	0	0
		30.0	23	2.25
		60.0	38	4.26
		77.0	62	5.69
		60.0	91	4.26
		30.0	109	2.25
		0	0	0
32	1	0	0	0
		30.0	19	1.87
		60.0	34	3.90
		83.0	58	5.34
		60.0	85	4.04
		30.0	102	2.14
		0	117	0.09
32	2	0	0	0
		30.0	20	1.81
		60.0	34	3.74
		80.0	58	5.28
		60.0	87	4.19
		30.0	107	2.14
		0	128	0.08

TABLE 4 - continued

HEAD/NECK PENDULUM CHORDAL DISPLACEMENT

<u>Dummy No.</u>	<u>Run No.</u>	<u>Rotation (degrees)</u>	<u>Time (m.s.)</u>	<u>Displacement (ins.)</u>
32	3	0	0	0
		30.0	21	1.93
		60.0	38	4.13
		79.5	64	5.29
		60.0	87	4.13
		30.0	109	1.57
		0	121	0.18
38	1	0	0	0
		30.0	22	2.08
		60.0	37	4.20
		81.0	66	5.59
		60.0	92	4.33
		30.0	111	2.16
		0	126	0.07
38	2	0	0	0
		30.0	21	2.05
		60.0	38	4.55
		85.0	67	5.90
		60.0	96	4.31
		30.0	113	2.33
		0	127	0.20
38	3	0	0	0
		30.0	21	2.29
		60.0	36	4.41
		88.0	66	6.01
		60.0	95	4.47
		30.0	114	2.10
		0	127	0.13
38	4	0	0	0
		30.0	22	2.18
		60.0	36	4.22
		85.0	65	5.94
		60.0	97	4.45
		30.0	115	2.30
		0	131	0.06

TABLE 4 - continued

HEAD-NECK PENDULUM CHORDAL DISPLACEMENT

<u>Dummy No.</u>	<u>Run No.</u>	<u>Rotation (degrees)</u>	<u>Time (m.s.)</u>	<u>Displacement (ins.)</u>
39	1	0	0	0
		30.0	21	2.02
		60.0	36	4.21
		82.5	63	5.76
		60.0	95	4.34
		30.0	115	1.90
		0	128	0.13
39	2	0	0	0
		30.0	22	2.08
		60.0	37	4.34
		85.0	65	5.71
		60.0	92	4.23
		30.0	111	1.83
		0	124	0.08
39	3	0	0	0
		30.0	22	2.32
		60.0	36	4.30
		88.5	64	5.95
		60.0	95	4.35
		30.0	112	2.40
		0	128	0.14
39	4	0	0	0
		30.0	22	2.36
		60.0	36	4.32
		86.5	64	5.77
		60.0	96	4.07
		30.0	111	2.34
		0	127	0.14

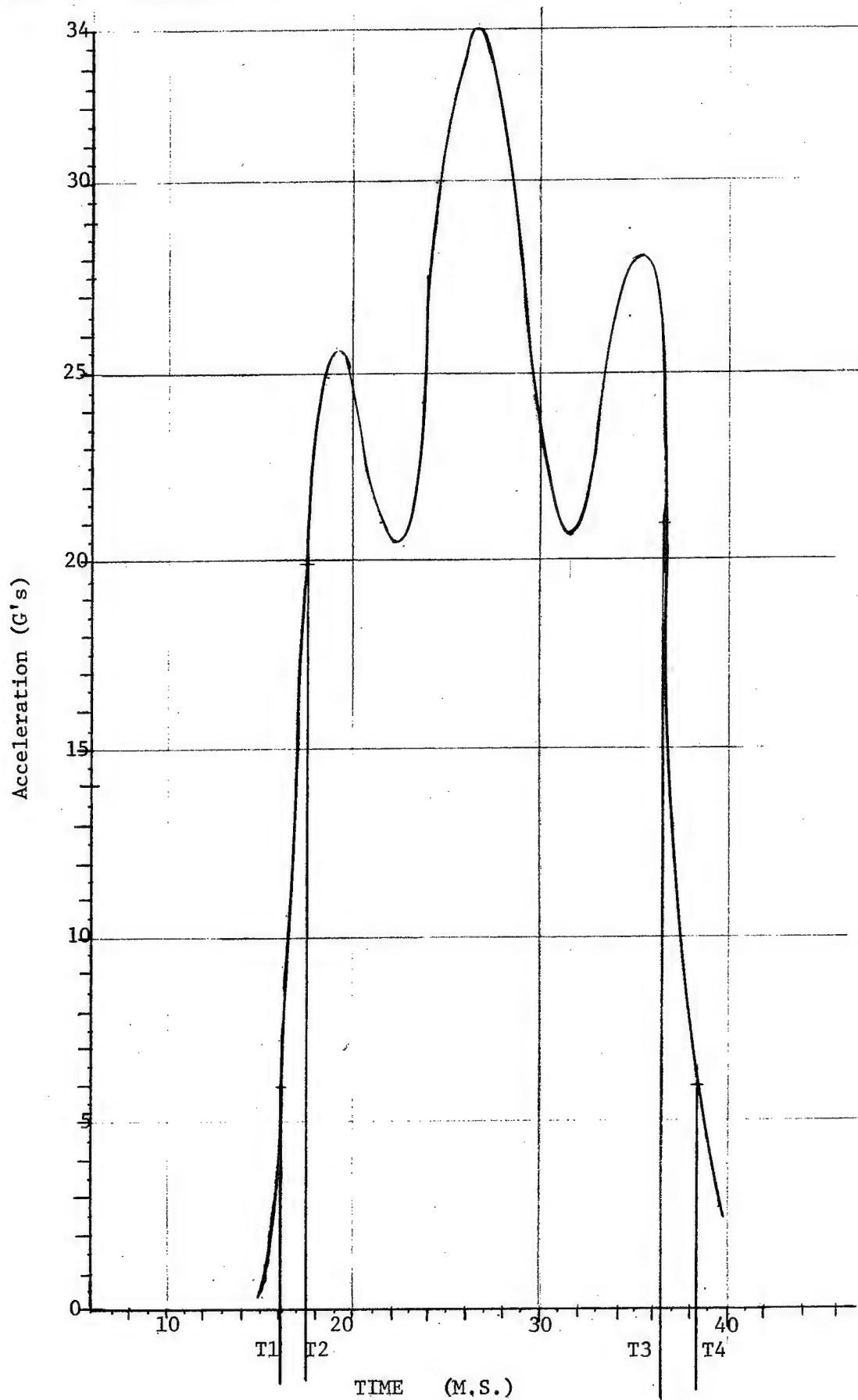


FIGURE 15

Typical Head/Neck Pendulum Acceleration-Time Pulse

3.4 Part IV - Lumbar Spine Flexion Tests

The lumbar spine deflection data are presented in Table 5. Dummies No. 31 and 32 were flexed to only 40° which required between 57 and 62 pounds force. Dummies No. 38 and 39 were flexed to 50° which required between 79 and 86 pounds.

Based on the data from Table 5 at a deflection of 40° , dummies No. 38 and 39 appear to be stiffer, requiring a higher force to reach the 40° mark.

TABLE 5

LUMBAR SPINE FLEXION TESTS

<u>Dummy No.</u>	<u>Deflection (degrees)</u>	<u>Run # 1 (pounds)</u>	<u>Run # 2 (pounds)</u>	<u>Run # 3 (pounds)</u>
31	0	0	0	0
	20	44	43	46
	30	50	56	55
	40	62	60	64
	Return to zero degrees			
32	0	0	0	0
	20	46	47	46
	30	52	55	51
	40	60	60	57
	Return to zero degrees			
38	0	0	0	0
	20	56	51	55
	30	67	64	67
	40	75	70	73
	50	79	86	84
	Return to zero degrees			
39	0	0	0	0
	20	70	63	70
	30	78	72	78
	40	83	76	82
	50	83	83	83
	Return to zero degrees			

4. CONCLUSIONS

Based on the data obtained in this test program, it is concluded that:

1. Acceleration can be used to measure the dynamic response of a three-year-old dummy.
2. The head impact tests, head-neck pendulum tests and the lumbar spine flexion tests gave repeatable data.
3. The chest impact data are inconsistent. Test setup and or test probe design appear to be extremely critical.

APPENDIX INDEX

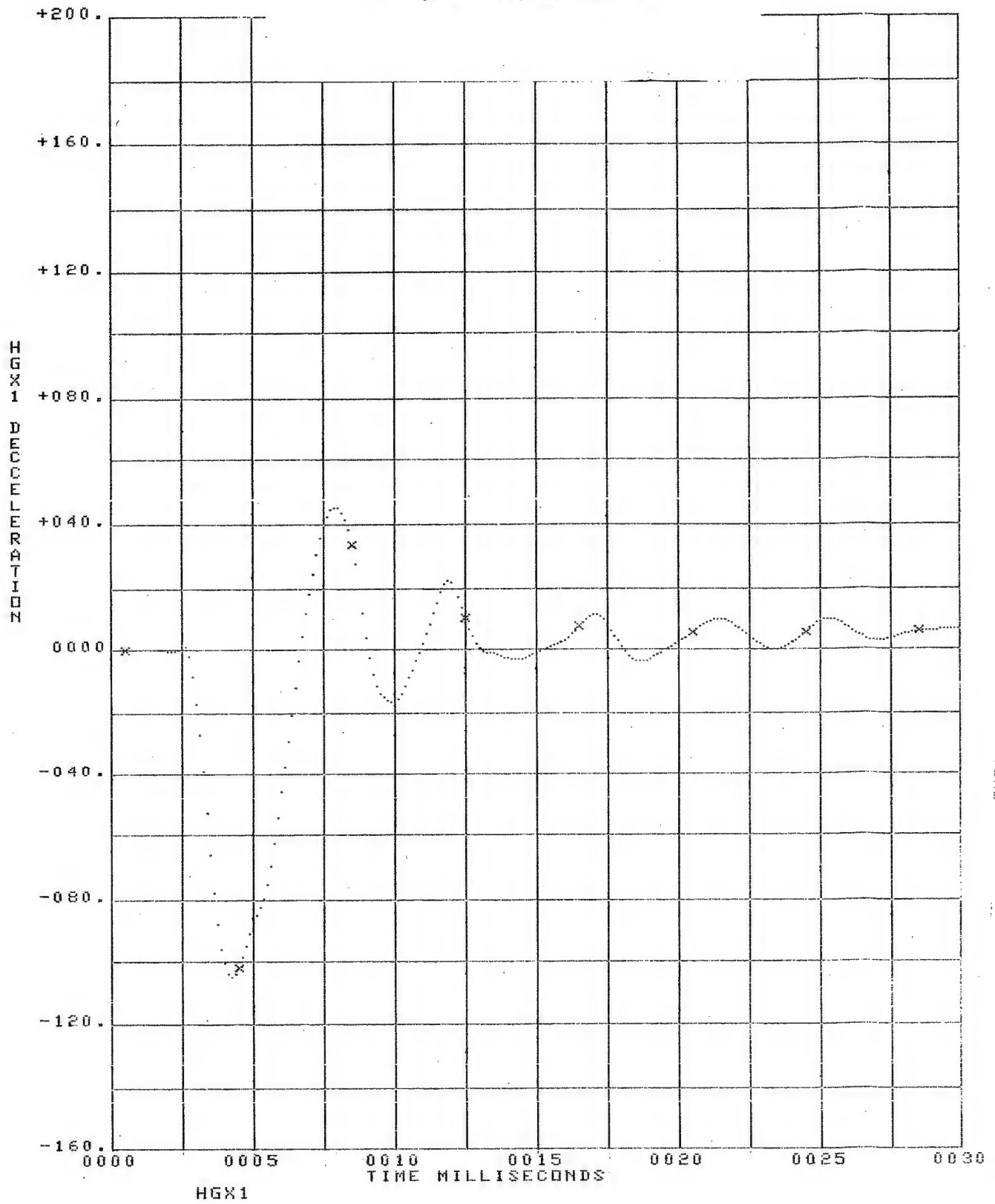
A	Head Impact,	Dummy No. 31,	Run No. 1
B	Head Impact,	Dummy No. 31,	Run No. 2
C	Head Impact,	Dummy No. 31,	Run No. 3
D	Head Impact,	Dummy No. 32,	Run No. 1
E	Head Impact,	Dummy No. 32,	Run No. 2
F	Head Impact,	Dummy No. 32,	Run No. 3
G	Head Impact,	Dummy No. 38,	Run No. 1
H	Head Impact,	Dummy No. 38,	Run No. 2
I	Head Impact,	Dummy No. 38,	Run No. 3
J	Head Impact,	Dummy No. 39,	Run No. 1
K	Head Impact,	Dummy No. 39,	Run No. 2
L	Head Impact,	Dummy No. 39,	Run No. 3
M	Chest Impact,	Dummy No. 31,	Run No. 1
N	Chest Impact,	Dummy No. 31,	Run No. 2
O	Chest Impact,	Dummy No. 31,	Run No. 3
P	Chest Impact,	Dummy No. 31,	Run No. 4
Q	Chest Impact,	Dummy No. 31,	Run No. 5
R	Chest Impact,	Dummy No. 31,	Run No. 6
S	Chest Impact,	Dummy No. 32,	Run No. 1
T	Chest Impact,	Dummy No. 32,	Run No. 2
U	Chest Impact,	Dummy No. 32,	Run No. 3
V	Chest Impact,	Dummy No. 32,	Run No. 4
W	Chest Impact,	Dummy No. 32,	Run No. 5
X	Chest Impact,	Dummy No. 32,	Run No. 6
Y	Chest Impact,	Dummy No. 32,	Run No. 7
Z	Chest Impact,	Dummy No. 32,	Run No. 8

APPENDIX INDEX

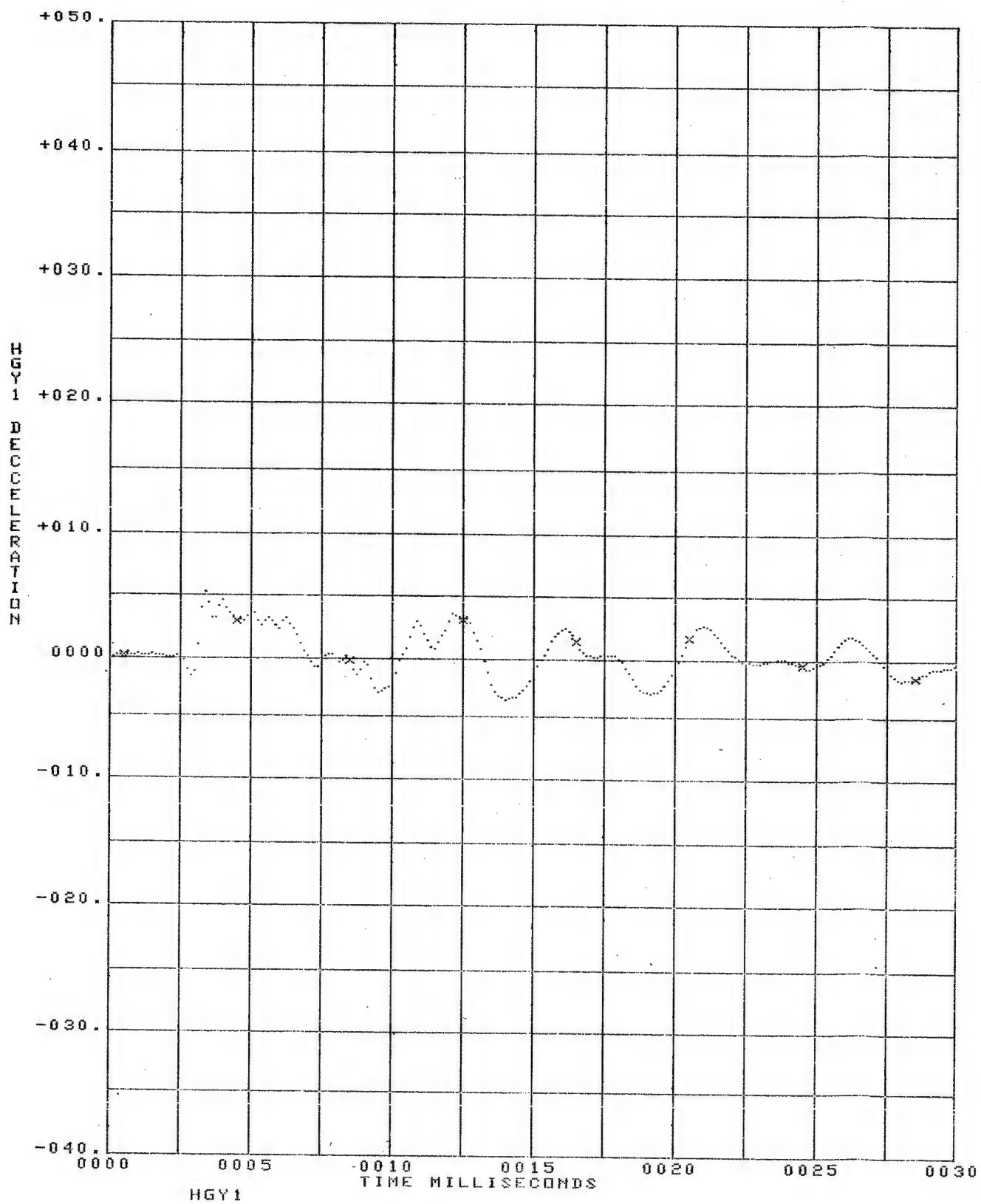
AA	Chest Impact,	Dummy No. 32,	Run No. 9
AB	Chest Impact,	Dummy No. 32,	Run No. 10
AC	Chest Impact,	Dummy No. 38,	Run No. 1
AD	Chest Impact,	Dummy No. 38,	Run No. 2
AE	Chest Impact,	Dummy No. 38,	Run No. 3
AF	Chest Impact,	Dummy No. 38,	Run No. 4
AG	Chest Impact,	Dummy No. 38,	Run No. 5
AH	Chest Impact,	Dummy No. 38,	Run No. 6
AI	Chest Impact,	Dummy No. 39,	Run No. 1
AJ	Chest Impact,	Dummy No. 39,	Run No. 2
AK	Chest Impact,	Dummy No. 39,	Run No. 3
AL	Chest Impact,	Dummy No. 39,	Run No. 4
AM	Chest Impact,	Dummy No. 39,	Run No. 5
AN	Chest Impact,	Dummy No. 39,	Run No. 6
AO	Head/Neck Pendulum,	Dummy No. 31,	Run No. 1
AP	Head/Neck Pendulum,	Dummy No. 31,	Run No. 2
AQ	Head/Neck Pendulum,	Dummy No. 31,	Run No. 3
AR	Head/Neck Pendulum,	Dummy No. 32,	Run No. 1
AS	Head/Neck Pendulum,	Dummy No. 32,	Run No. 2
AT	Head/Neck Pendulum,	Dummy No. 32,	Run No. 3
AU	Head/Neck Pendulum,	Dummy No. 38,	Run No. 1
AV	Head/Neck Pendulum,	Dummy No. 38,	Run No. 2
AW	Head/Neck Pendulum,	Dummy No. 38,	Run No. 3
AX	Head/Neck Pendulum,	Dummy No. 38,	Run No. 4
AY	Head/Neck Pendulum,	Dummy No. 39,	Run No. 1
AZ	Head/Neck Pendulum,	Dummy No. 39,	Run No. 2
BA	Head/Neck Pendulum,	Dummy No. 39,	Run No. 3
BB	Head/Neck Pendulum,	Dummy No. 39,	Run No. 4

Head Impact
Dummy No. 31, Run No. 1

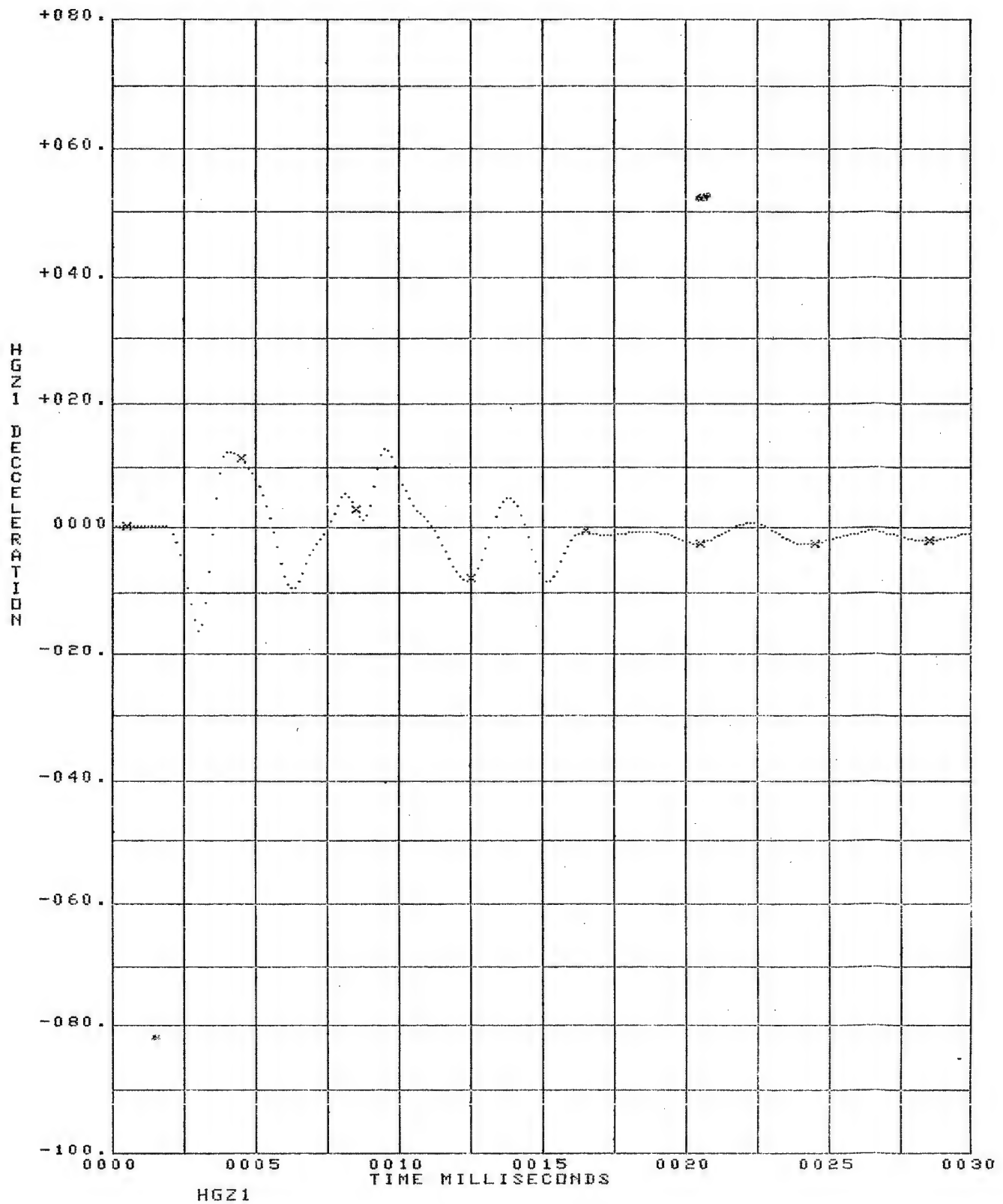
HEAD IMPACT
TEST H101



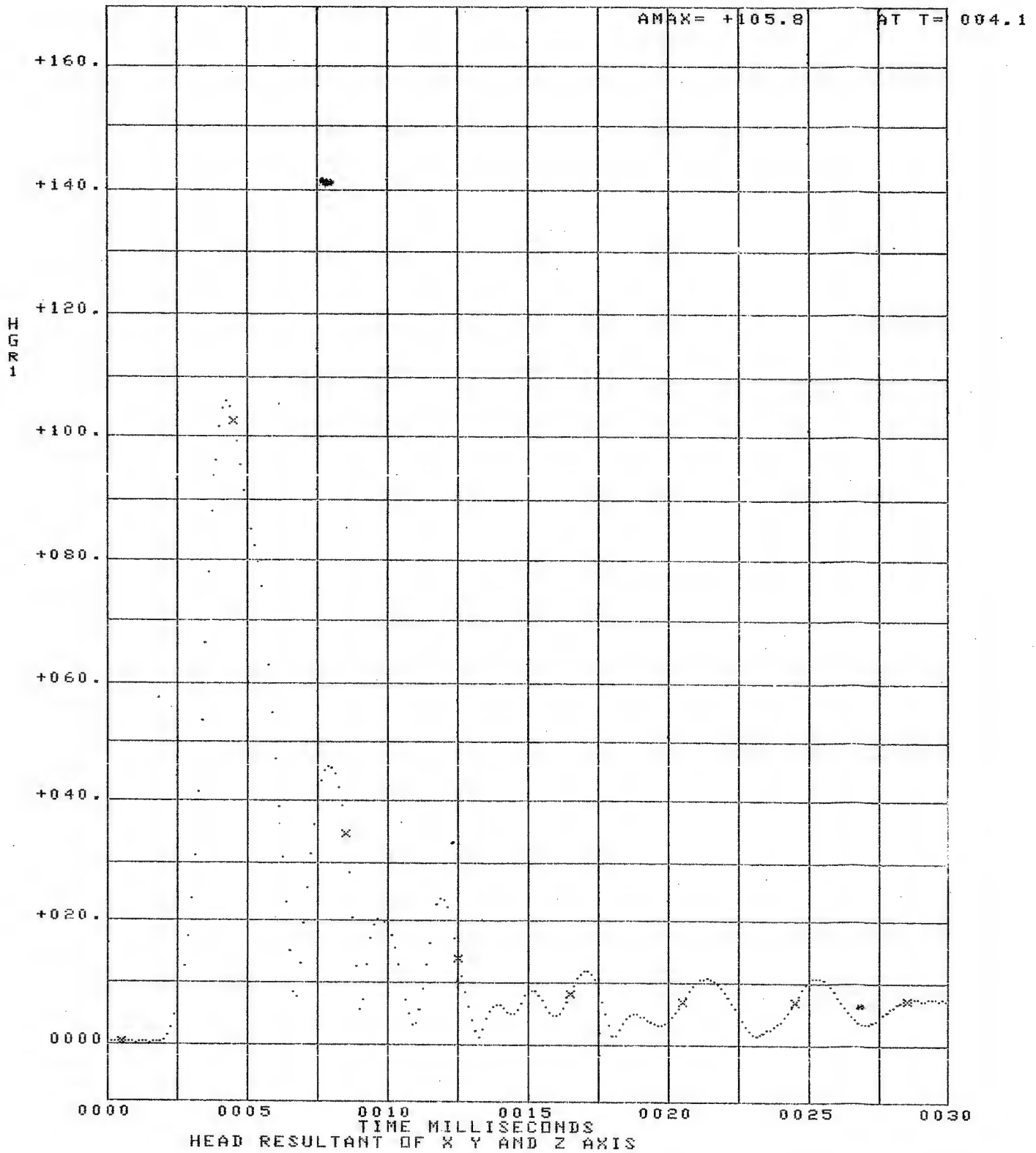
HEAD IMPACT
TEST H101



HEAD IMPACT
TEST H101



HEAD IMPACT
TEST H101



RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H101

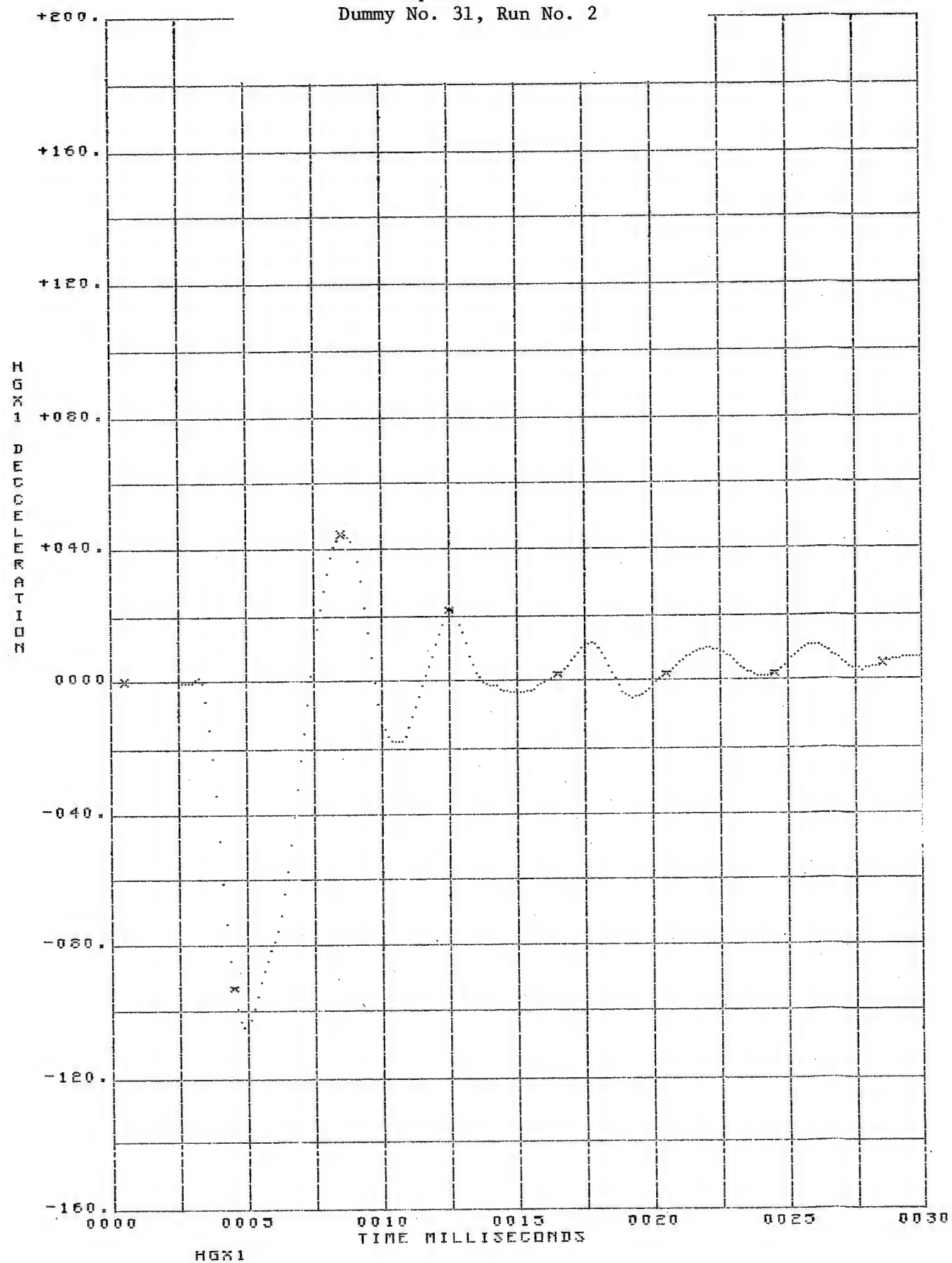
TIME					
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0.6250	+000.1	+000.1	+000.0	+000.1	+000.1
1.2500	+000.1	+000.0	+000.1	+000.1	+000.2
1.8750	+000.5	+001.2	+002.5	+004.4	+007.0
2.5000	+009.6	+012.1	+016.9	+023.4	+030.9
3.1250	+041.1	+053.6	+066.2	+077.7	+088.0
3.7500	+096.1	+101.6	+104.8	+105.8	+104.9
4.3750	+102.6	+099.2	+095.3	+091.3	+087.9
5.0000	+085.0	+082.4	+079.5	+075.2	+069.6
5.6250	+062.5	+054.8	+046.6	+038.6	+030.6
6.2500	+022.5	+014.7	+008.1	+007.3	+012.6
6.8750	+019.0	+025.3	+031.0	+035.8	+039.8
7.5000	+042.8	+044.6	+045.4	+045.1	+044.0
8.1250	+041.8	+038.7	+034.3	+027.9	+020.2
8.7500	+012.2	+005.5	+006.9	+012.4	+016.6
9.3750	+018.9	+019.8	+019.7	+019.3	+018.3
10.0000	+017.0	+015.0	+012.3	+009.6	+006.9
10.6250	+004.6	+003.0	+003.2	+005.5	+008.8
11.2500	+012.3	+015.9	+019.5	+022.2	+023.4
11.8750	+023.2	+021.8	+019.5	+016.7	+013.4
12.5000	+010.7	+008.1	+005.9	+003.7	+001.9
13.1250	+000.9	+002.2	+003.8	+005.1	+005.8
13.7500	+006.1	+006.1	+005.7	+005.0	+004.7
14.3750	+004.6	+005.4	+006.4	+007.5	+008.0
15.0000	+008.5	+008.3	+007.7	+006.9	+005.9
15.6250	+005.0	+004.4	+004.3	+004.8	+005.7
16.2500	+006.7	+008.0	+009.2	+010.3	+010.9
16.8750	+011.5	+011.5	+011.0	+010.1	+008.6
17.5000	+006.8	+004.8	+003.0	+001.2	+001.1
18.1250	+002.3	+003.3	+004.0	+004.5	+004.6
18.7500	+004.6	+004.3	+004.0	+003.6	+003.4
19.3750	+003.2	+002.9	+003.0	+003.2	+003.6
20.0000	+004.2	+005.0	+005.7	+006.7	+007.5
20.6250	+008.4	+009.0	+009.6	+010.1	+010.2
21.2500	+010.3	+010.2	+009.8	+009.5	+009.0
21.8750	+008.2	+007.4	+006.4	+005.6	+004.5
22.5000	+003.6	+002.7	+001.9	+001.4	+001.2
23.1250	+001.4	+001.8	+002.1	+002.3	+002.6
23.7500	+003.1	+003.5	+004.2	+005.0	+006.0
24.3750	+006.8	+007.8	+008.6	+009.3	+009.9
25.0000	+010.3	+010.4	+010.4	+010.1	+009.7
25.6250	+009.1	+008.3	+007.5	+006.7	+005.9
26.2500	+005.1	+004.5	+003.9	+003.4	+003.2
26.8750	+003.1	+003.1	+003.4	+003.8	+004.2
27.5000	+004.6	+005.1	+005.6	+006.0	+006.3
28.1250	+006.5	+006.8	+006.9	+007.0	+007.1
28.7500	+007.1	+007.0	+007.0	+007.1	+007.1
29.3750	+007.1	+007.0	+007.0	+007.0	+007.0
30.0000	+007.0	+006.9	+006.9	+006.8	+006.8
30.6250	+006.7	+006.5	+006.2	+006.0	+005.7
31.2500	+005.4	+005.1	+004.9	+004.8	+004.8
31.8750	+004.7	+004.8	+005.0	+005.1	+005.3
32.5000	+005.7	+006.0	+006.2	+006.5	+006.8
33.1250	+007.1	+007.4	+007.6	+007.8	+007.9
33.7500	+008.0	+007.9	+007.7	+007.5	+007.3
34.3750	+007.0	+006.9	+006.6	+006.3	+006.0
35.0000	+005.8	+005.6	+005.4	+005.2	+005.2
35.6250	+005.2	+005.3	+005.3	+005.4	+005.5
36.2500	+005.6	+005.8	+005.9	+006.2	+006.4
36.8750	+006.5	+006.6	+006.8	+007.0	+007.0

RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H101		
37.5000	+007.1	+007.1	+007.1	+007.1	+007.1	+007.1
38.1250	+007.1	+007.1	+007.1	+006.9	+006.8	+006.6
38.7500	+006.5	+006.3	+006.2	+006.1	+006.1	+006.1
39.3750	+006.0	+005.8	+005.7	+005.6	+005.6	+005.4
40.0000	+005.3	+005.5	+005.3	+005.4	+005.4	+005.5
40.6250	+005.5	+005.5	+005.6	+005.7	+005.7	+005.7
41.2500	+006.0	+006.0	+006.1	+006.1	+006.1	+006.3
41.8750	+006.4	+006.5	+006.3	+006.5	+006.5	+006.5
42.5000	+006.5	+006.5	+006.3	+006.3	+006.3	+006.3
43.1250	+006.0	+006.0	+005.8	+005.7	+005.7	+005.5
43.7500	+005.5	+005.4	+005.3	+005.2	+005.2	+005.2
44.3750	+005.1	+005.2	+005.2	+005.2	+005.2	+005.2
45.0000	+005.2	+005.4	+005.4	+005.4	+005.4	+005.5
45.6250	+005.5	+005.5	+005.5	+005.5	+005.5	+005.5
46.2500	+005.5	+005.5	+005.5	+005.5	+005.4	+005.4
46.8750	+005.4	+005.2	+005.2	+005.1	+005.1	+005.1
47.5000	+005.0	+005.0	+005.2	+005.1	+005.1	+005.2
48.1250	+005.2	+005.2	+005.3	+005.3	+005.3	+005.4
48.7500	+005.4	+005.5	+005.5	+005.5	+005.5	+005.5
49.3750	+005.6	+005.6	+005.6	+005.7	+005.7	+005.7
50.0000	+005.6	+005.6	+005.6	+005.7	+005.7	+005.7
50.6250	+005.7	+005.7	+005.6	+005.5	+005.5	+005.5
51.2500	+005.5	+005.5	+005.4	+005.4	+005.4	+005.4
51.8750	+005.3	+005.4	+005.3	+005.2	+005.2	+005.1
52.5000	+005.2	+005.2	+005.2	+005.2	+005.2	+005.2
53.1250	+005.2	+005.3	+005.3	+005.3	+005.3	+005.3
53.7500	+005.3	+005.4	+005.3	+005.3	+005.3	+005.1
54.3750	+005.0	+004.8	+004.5	+004.3	+004.3	+004.0
55.0000	+003.6	+003.4	+003.2	+003.0	+003.0	+002.7
55.6250	+002.6	+002.4	+002.3	+002.0	+002.0	+001.8
56.2500	+001.7	+001.5	+001.2	+001.1	+001.1	+000.9
56.8750	+000.7	+000.5	+000.7	+000.9	+000.9	+001.1
57.5000	+001.4	+001.8	+002.1	+002.5	+002.5	+002.9
58.1250	+003.2	+003.4	+003.7	+004.0	+004.0	+004.2
58.7500	+004.3	+004.5	+004.7	+005.0	+005.0	+005.2
59.3750	+005.4	+005.7	+005.8	+006.0	+006.0	+006.0

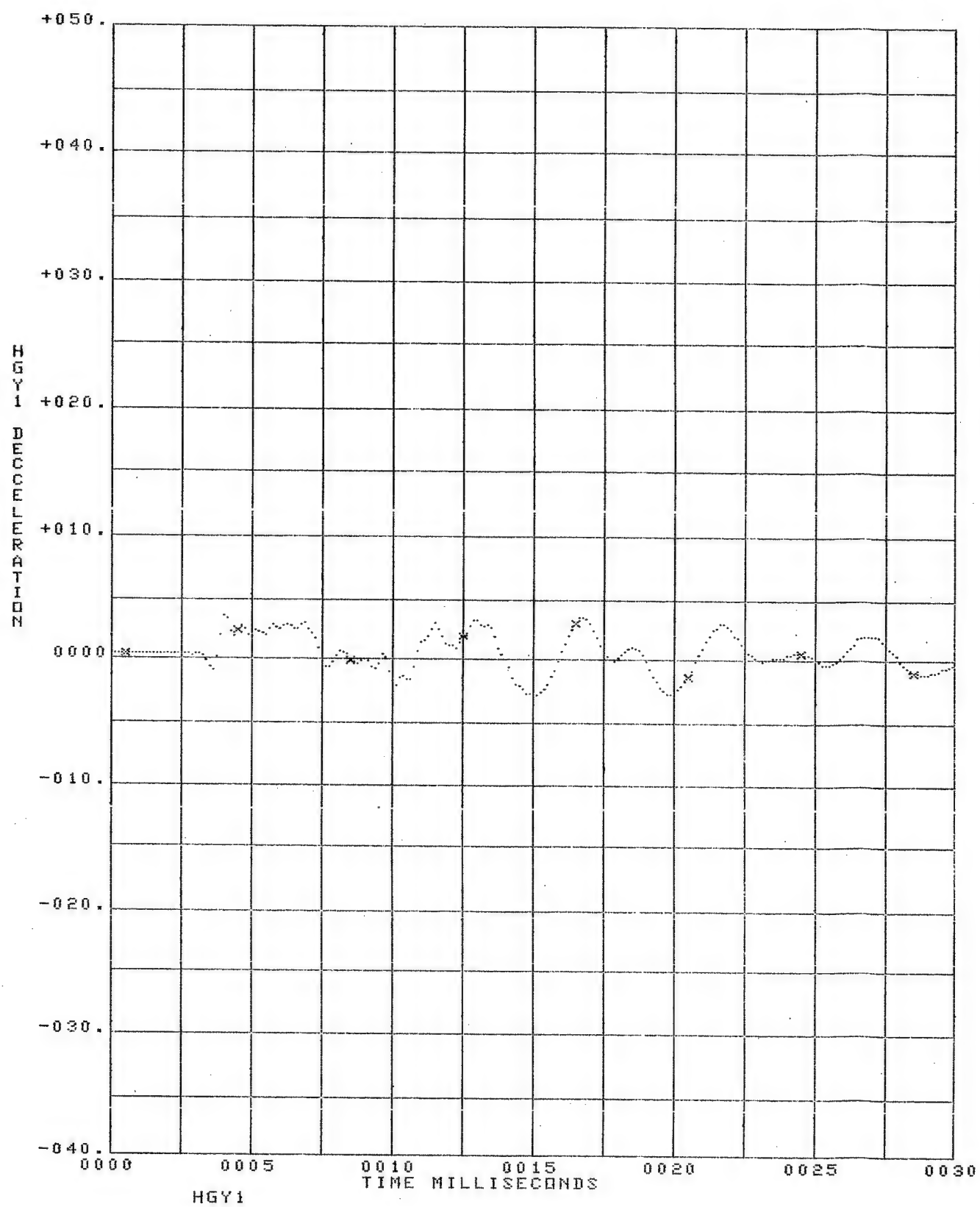
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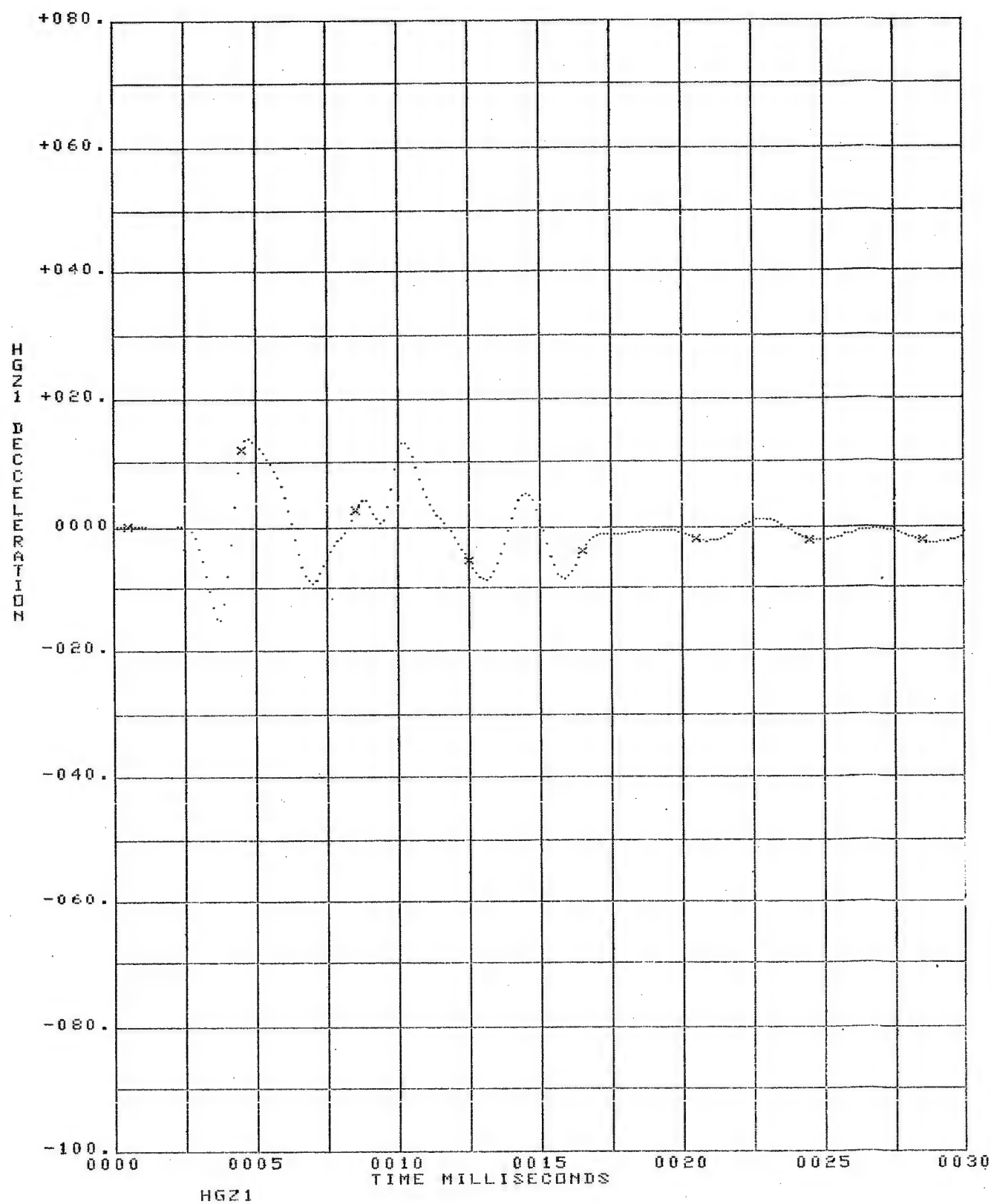
Head Impact
Dummy No. 31, Run No. 2



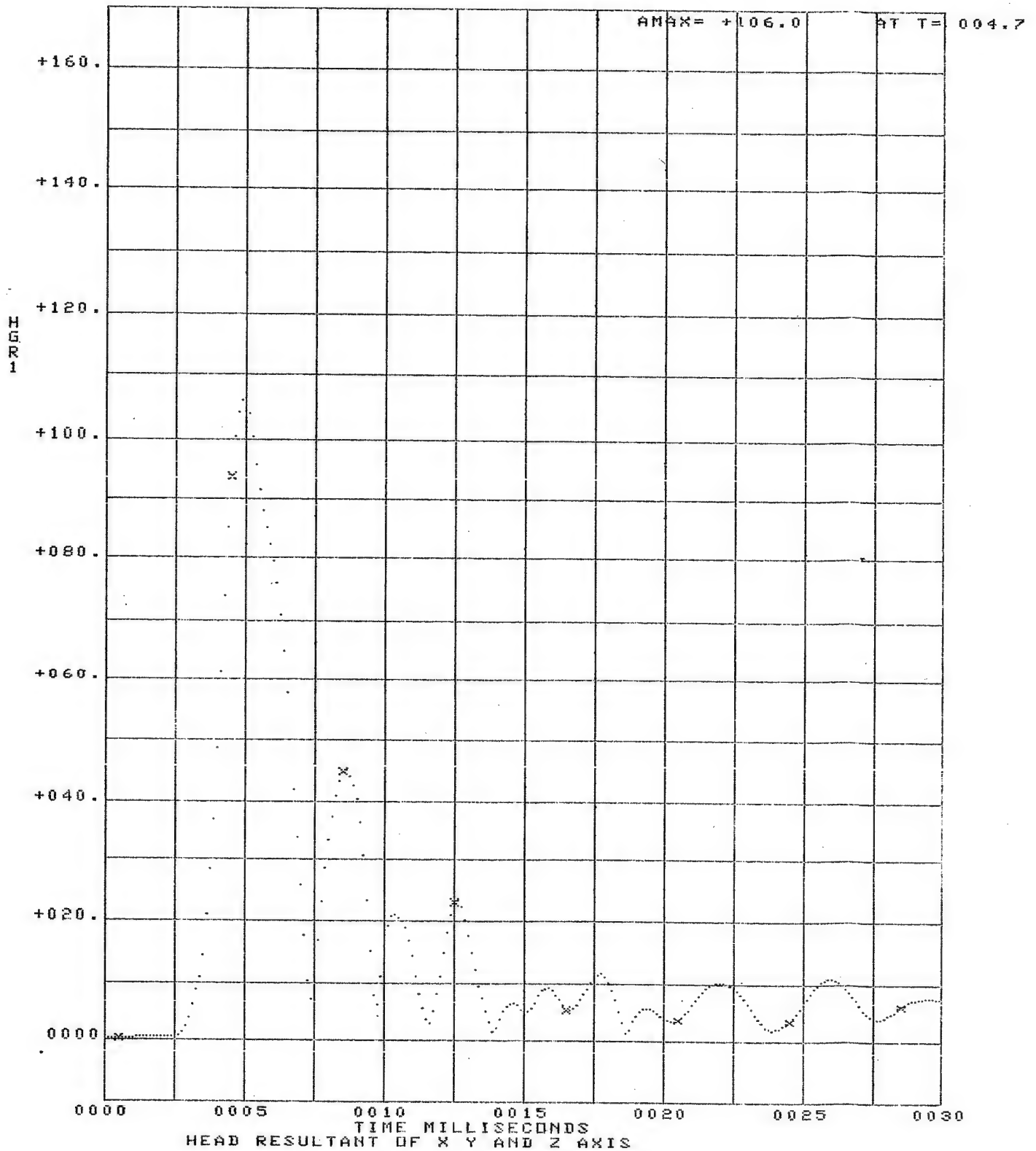
HEAD IMPACT
TEST H102



HEAD IMPACT
TEST H102



HEAD IMPACT
TEST H102



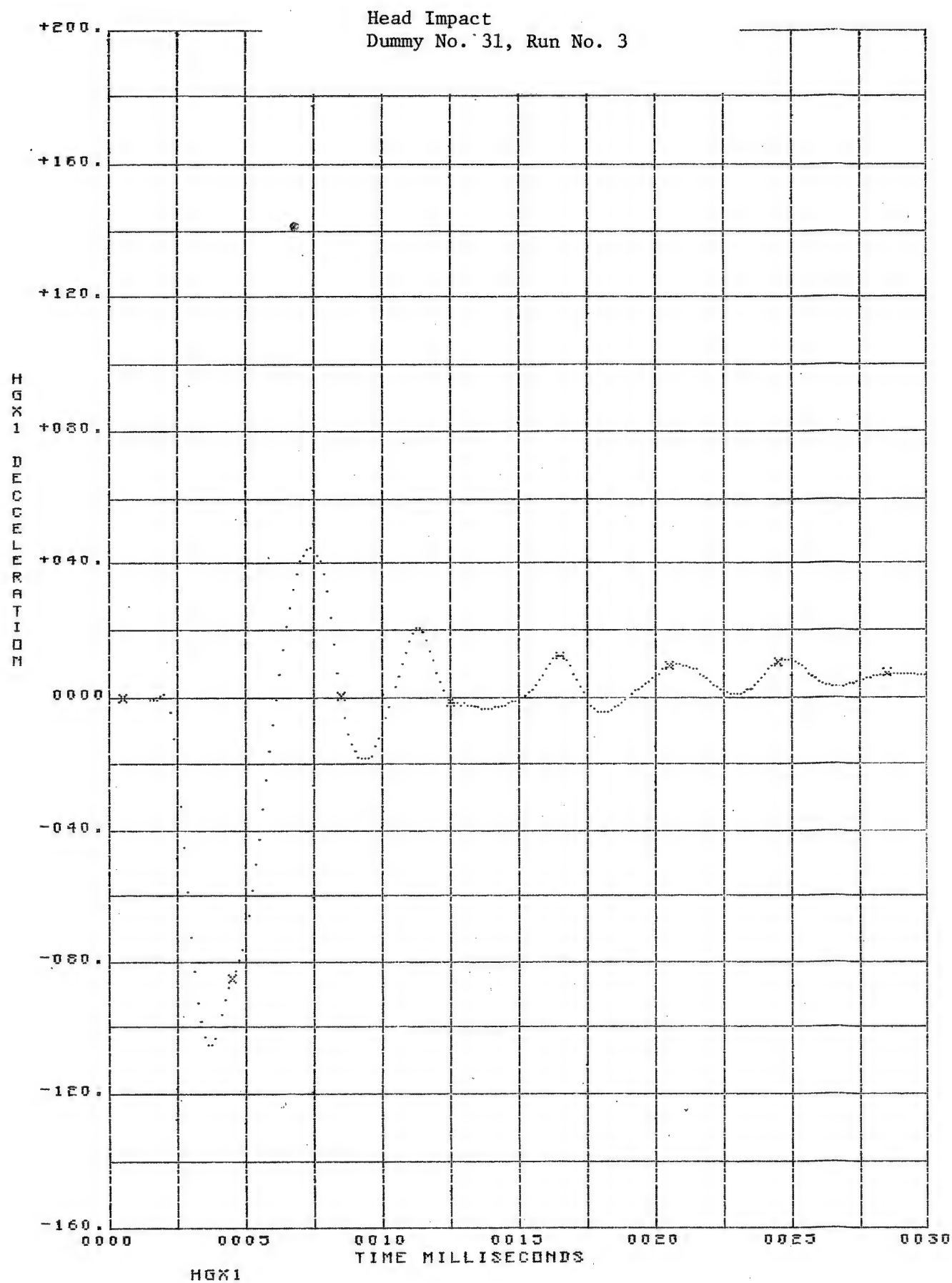
RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H102

TIME					
0.0000	+000.0	+000.0	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.1	+000.2
1.2500	+000.2	+000.2	+000.2	+000.2	+000.2
1.8750	+000.2	+000.1	+000.1	+000.1	+000.2
2.5000	+000.3	+000.8	+001.9	+003.4	+005.7
3.1250	+008.4	+010.6	+014.2	+020.5	+027.8
3.7500	+036.6	+048.3	+061.1	+073.6	+084.8
4.3750	+094.1	+100.4	+104.2	+106.0	+106.0
5.0000	+103.8	+100.4	+095.9	+091.5	+087.8
5.6250	+084.8	+082.1	+079.2	+075.6	+070.8
6.2500	+064.6	+057.4	+049.5	+041.6	+033.3
6.8750	+025.2	+017.3	+010.2	+006.6	+010.4
7.5000	+016.6	+022.6	+028.1	+032.8	+037.0
8.1250	+040.4	+043.1	+044.6	+044.7	+043.9
8.7500	+042.3	+039.9	+036.1	+030.3	+022.9
9.3750	+014.9	+007.4	+005.7	+011.0	+015.8
10.0000	+019.0	+020.4	+020.6	+020.2	+019.7
10.6250	+018.6	+016.7	+014.0	+010.8	+007.7
11.2500	+005.1	+003.2	+002.5	+004.6	+007.6
11.8750	+011.0	+014.6	+017.9	+020.7	+022.7
12.5000	+023.0	+021.7	+019.8	+017.4	+014.6
13.1250	+011.9	+009.2	+007.0	+004.7	+002.7
13.7500	+001.2	+001.8	+003.2	+004.6	+005.5
14.3750	+005.9	+006.1	+005.6	+005.0	+004.7
15.0000	+004.6	+005.1	+006.2	+007.3	+008.3
15.6250	+008.7	+008.8	+008.3	+007.5	+006.5
16.2500	+005.7	+005.0	+005.0	+005.1	+005.7
16.8750	+006.6	+007.5	+008.7	+009.8	+010.6
17.5000	+011.1	+011.3	+010.8	+009.8	+008.5
18.1250	+006.7	+004.6	+002.7	+001.0	+001.5
18.7500	+002.8	+003.9	+004.7	+005.1	+005.2
19.3750	+005.1	+004.8	+004.4	+003.8	+003.4
20.0000	+003.1	+002.8	+002.9	+003.2	+003.8
20.6250	+004.3	+005.0	+005.9	+006.7	+007.5
21.2500	+008.3	+008.8	+009.4	+009.7	+010.0
21.8750	+010.0	+009.9	+009.7	+009.3	+008.9
22.5000	+008.3	+007.6	+006.8	+006.1	+005.1
23.1250	+004.1	+003.3	+002.6	+002.0	+001.6
23.7500	+001.4	+001.6	+001.8	+002.1	+002.6
24.3750	+003.0	+003.6	+004.3	+005.1	+006.1
25.0000	+007.0	+008.0	+008.8	+009.5	+010.1
25.6250	+010.5	+010.7	+010.6	+010.4	+010.1
26.2500	+009.6	+009.0	+008.1	+007.4	+006.6
26.8750	+005.8	+005.0	+004.5	+003.9	+003.6
27.5000	+003.5	+003.4	+003.7	+004.1	+004.4
28.1250	+004.8	+005.4	+005.7	+006.0	+006.4
28.7500	+006.6	+006.8	+006.8	+007.0	+007.2
29.3750	+007.1	+007.1	+007.0	+007.0	+007.1
30.0000	+007.0	+007.1	+007.1	+007.1	+007.1
30.6250	+007.1	+007.1	+006.9	+006.8	+006.8
31.2500	+006.6	+006.5	+006.2	+005.8	+005.6
31.8750	+005.3	+005.0	+004.9	+004.8	+004.7
32.5000	+004.6	+004.6	+004.7	+004.8	+004.9
33.1250	+005.1	+005.4	+005.5	+005.8	+006.1
33.7500	+006.4	+006.7	+007.1	+007.4	+007.5
34.3750	+007.6	+007.8	+007.8	+007.8	+007.5
35.0000	+007.4	+007.2	+006.9	+006.6	+006.4
35.6250	+006.1	+005.9	+005.6	+005.3	+005.3
36.2500	+005.1	+005.1	+005.1	+005.1	+005.1
36.8750	+005.2	+005.4	+005.5	+005.7	+005.8

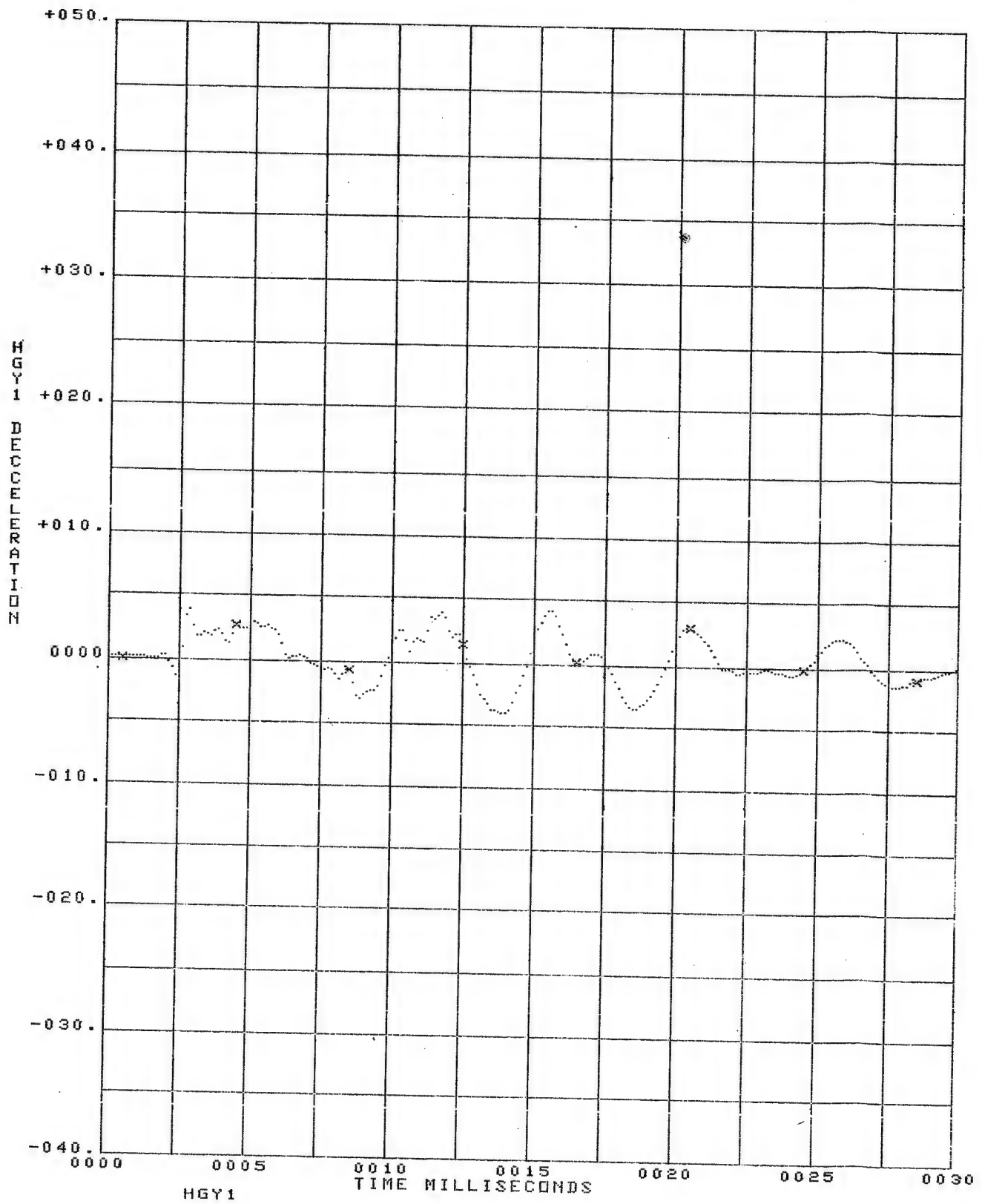
RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H102		
37.5000	+006.0	+006.2	+006.2	+006.5	+006.6	
38.1250	+006.8	+006.9	+007.0	+007.0	+007.1	
38.7500	+007.1	+007.1	+007.0	+007.0	+007.0	
39.3750	+007.0	+006.8	+006.7	+006.7	+006.5	
40.0000	+006.4	+006.4	+006.2	+006.1	+006.1	
40.6250	+006.0	+005.8	+005.8	+005.8	+005.8	
41.2500	+005.8	+006.0	+006.0	+006.1	+006.1	
41.8750	+006.2	+006.3	+006.4	+006.4	+006.6	
42.5000	+006.5	+006.6	+006.8	+006.8	+006.8	
43.1250	+006.9	+006.9	+006.8	+006.8	+006.6	
43.7500	+006.5	+006.5	+006.3	+006.3	+006.2	
44.3750	+006.0	+005.9	+005.8	+005.7	+005.6	
45.0000	+005.6	+005.4	+005.4	+005.4	+005.4	
45.6250	+005.4	+005.4	+005.4	+005.4	+005.3	
46.2500	+005.5	+005.5	+005.7	+005.8	+005.8	
46.8750	+005.8	+005.8	+005.8	+005.8	+005.8	
47.5000	+005.8	+005.7	+005.7	+005.6	+005.6	
48.1250	+005.6	+005.4	+005.4	+005.3	+005.2	
48.7500	+005.1	+005.0	+005.0	+005.0	+005.0	
49.3750	+005.0	+005.0	+005.0	+005.0	+005.0	
50.0000	+005.1	+005.1	+005.2	+005.3	+005.4	
50.6250	+005.4	+005.4	+005.6	+005.5	+005.6	
51.2500	+005.6	+005.6	+005.7	+005.5	+005.6	
51.8750	+005.6	+005.5	+005.4	+005.4	+005.3	
52.5000	+005.3	+005.3	+005.1	+005.1	+005.0	
53.1250	+005.0	+005.0	+004.9	+004.9	+004.7	
53.7500	+004.7	+004.8	+004.8	+004.6	+004.6	
54.3750	+004.6	+004.5	+004.3	+004.2	+004.0	
55.0000	+003.9	+003.8	+003.6	+003.4	+003.2	
55.6250	+003.0	+002.8	+002.7	+002.6	+002.5	
56.2500	+002.4	+002.2	+002.0	+001.8	+001.4	
56.8750	+001.1	+000.8	+000.4	+000.3	+000.4	
57.5000	+000.7	+001.0	+001.4	+001.8	+002.2	
58.1250	+002.5	+002.8	+003.2	+003.4	+003.8	
58.7500	+003.9	+004.2	+004.4	+004.4	+004.6	
59.3750	+004.7	+004.9	+005.1	+005.3	+005.4	

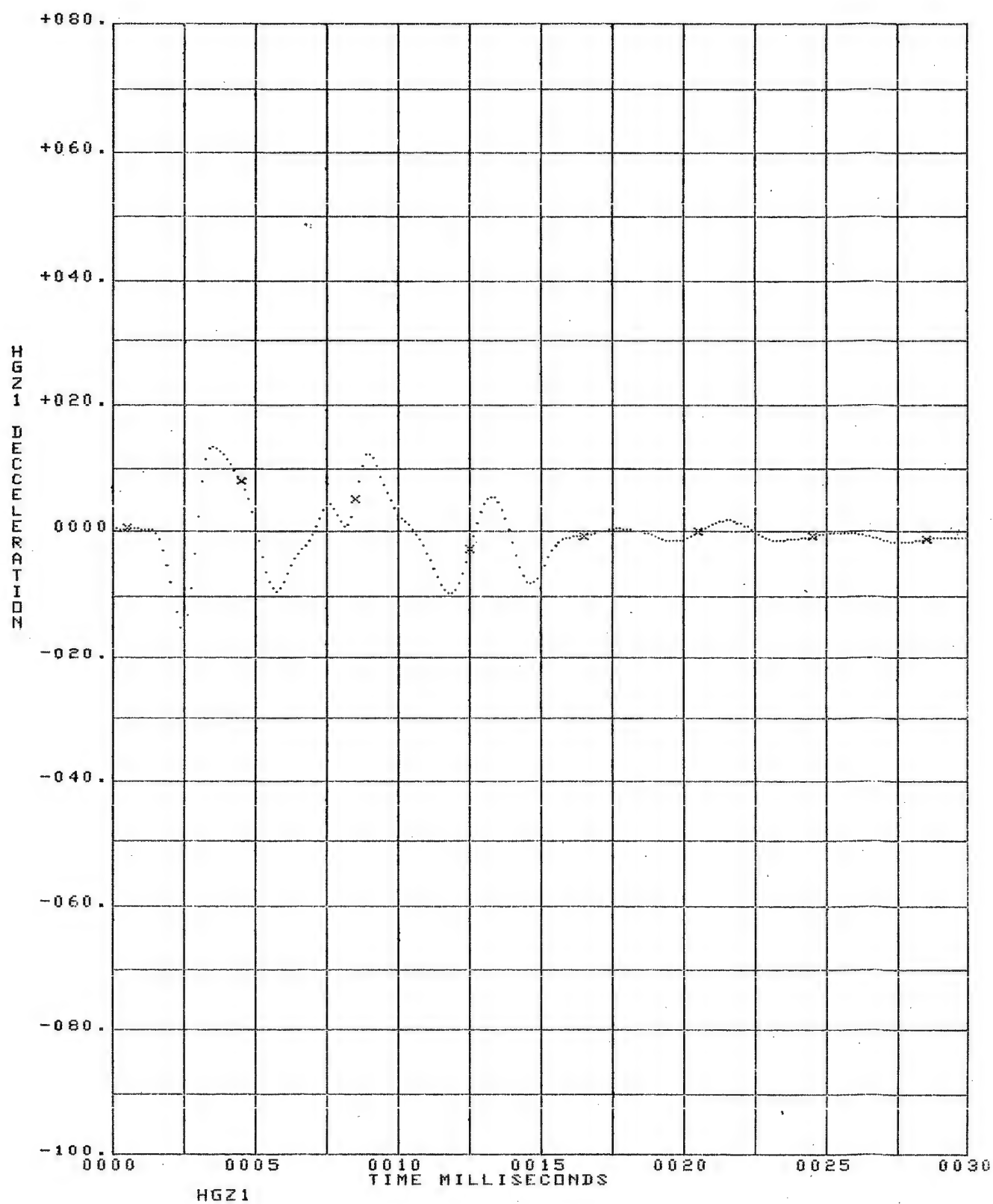
AMAX= +106.0

AT T=004.7

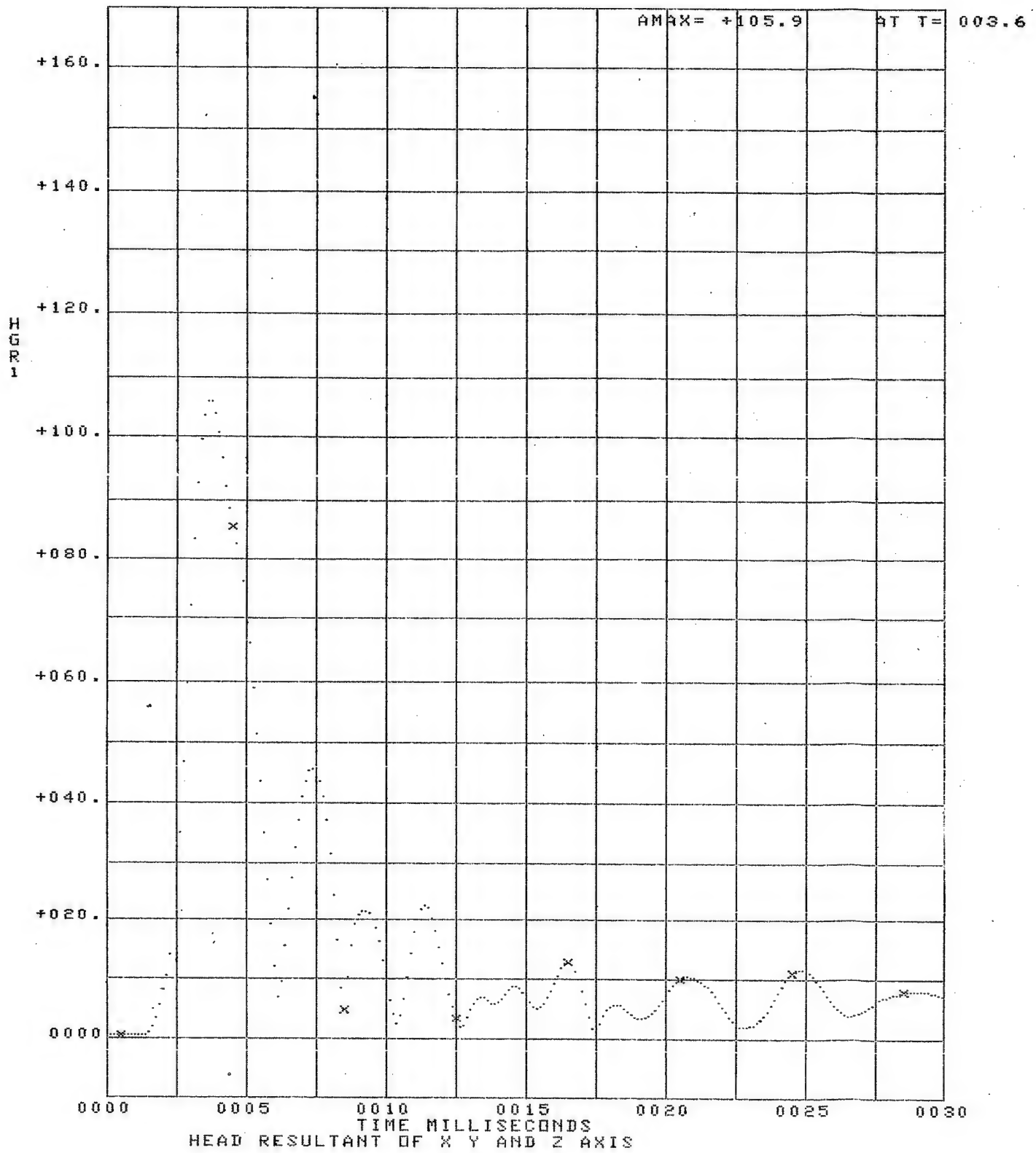


HEAD IMPACT
TEST H103





HEAD IMPACT
TEST H103



RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H103

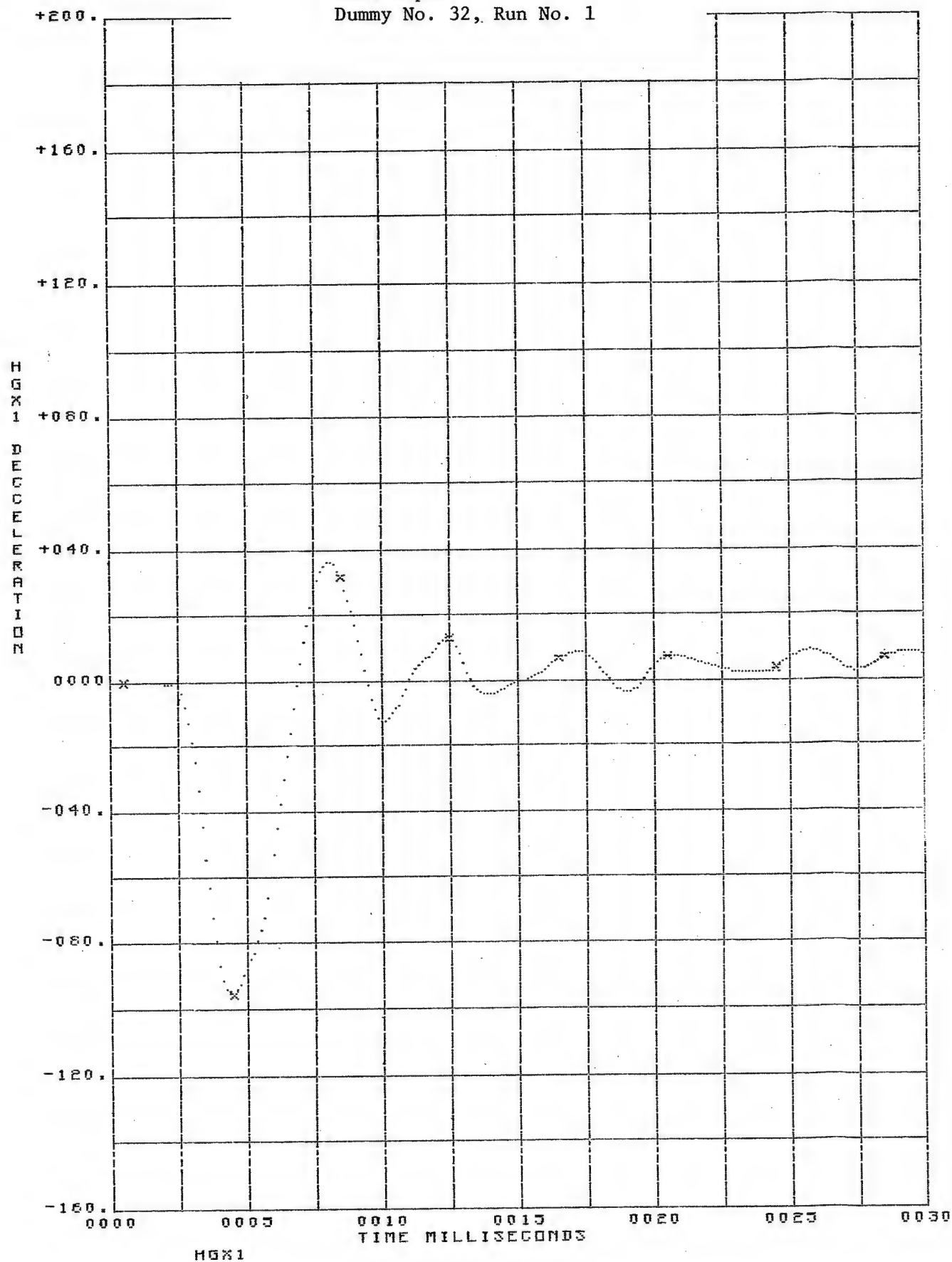
TIME					
0.0000	+000.1	+000.1	+000.1	+000.2	+000.1
0.6250	+000.1	+000.1	+000.1	+000.1	+000.1
1.2500	+000.3	+000.7	+001.6	+003.1	+005.4
1.8750	+008.0	+010.2	+013.6	+019.5	+026.3
2.5000	+034.8	+046.2	+059.3	+071.8	+083.3
3.1250	+092.6	+099.3	+103.5	+105.9	+105.9
3.7500	+104.0	+100.7	+096.5	+092.2	+088.5
4.3750	+085.5	+082.6	+079.7	+076.1	+071.5
5.0000	+065.6	+058.7	+050.9	+043.0	+034.8
5.6250	+026.8	+018.9	+011.6	+006.8	+009.1
6.2500	+015.1	+021.3	+027.1	+032.4	+036.8
6.8750	+040.4	+043.1	+044.7	+045.0	+044.4
7.5000	+043.0	+040.6	+036.9	+031.3	+024.2
8.1250	+016.2	+008.3	+004.8	+009.8	+015.1
8.7500	+018.8	+020.5	+021.2	+021.1	+020.6
9.3750	+019.7	+018.2	+015.8	+012.5	+009.3
10.0000	+006.2	+003.9	+002.2	+003.6	+006.4
10.6250	+010.0	+013.9	+017.3	+019.7	+021.3
11.2500	+022.1	+021.5	+019.8	+017.5	+014.9
11.8750	+012.2	+009.6	+007.2	+005.3	+003.2
12.5000	+001.6	+001.9	+003.3	+004.6	+005.7
13.1250	+006.3	+006.6	+006.5	+006.1	+005.7
13.7500	+005.6	+005.8	+006.5	+007.2	+007.9
14.3750	+008.3	+008.4	+008.1	+007.5	+006.6
15.0000	+005.9	+005.2	+005.0	+005.2	+005.8
15.6250	+006.7	+007.7	+008.9	+010.2	+011.3
16.2500	+012.1	+012.4	+014.9	+011.0	+009.6
16.8750	+007.7	+005.7	+003.4	+001.3	+000.6
17.5000	+002.3	+003.6	+004.6	+005.1	+005.4
18.1250	+003.5	+005.3	+004.9	+004.4	+003.9
18.7500	+003.5	+003.2	+003.2	+003.4	+003.6
19.3750	+004.2	+004.8	+005.5	+006.2	+007.1
20.0000	+007.9	+008.8	+009.3	+009.7	+010.0
20.6250	+010.9	+010.0	+009.8	+009.4	+009.2
21.2500	+008.7	+008.8	+007.7	+006.8	+005.9
21.8750	+003.2	+004.3	+003.5	+002.7	+002.1
22.5000	+001.8	+001.7	+001.7	+001.9	+002.1
23.1250	+002.4	+003.0	+003.7	+004.4	+005.4
23.7500	+006.4	+007.5	+008.5	+009.4	+010.1
24.3750	+010.6	+011.0	+011.2	+011.2	+011.0
25.0000	+010.6	+010.1	+009.4	+008.6	+007.8
25.6250	+006.9	+006.2	+005.5	+004.9	+004.5
26.2500	+004.0	+003.7	+003.8	+003.9	+004.0
26.8750	+004.4	+004.8	+005.2	+005.5	+006.0
27.5000	+006.3	+006.6	+006.7	+006.9	+007.1
28.1250	+007.2	+007.5	+007.6	+007.6	+007.5
28.7500	+007.6	+007.6	+007.6	+007.6	+007.6
29.3750	+007.4	+007.3	+007.1	+007.0	+006.8
30.0000	+006.6	+006.5	+006.1	+005.8	+005.5
30.6250	+005.3	+005.0	+004.8	+004.6	+004.5
31.2500	+004.5	+004.3	+004.4	+004.4	+004.6
31.8750	+004.7	+004.9	+005.2	+005.4	+005.6
32.5000	+006.0	+006.2	+006.5	+006.8	+007.1
33.1250	+007.2	+007.4	+007.4	+007.4	+007.1
33.7500	+006.9	+006.7	+006.6	+006.3	+006.0
34.3750	+005.7	+005.6	+005.3	+005.1	+004.9
35.0000	+004.9	+004.8	+004.8	+004.8	+004.8
35.6250	+004.9	+005.0	+005.2	+005.3	+005.6
36.2500	+005.7	+005.8	+006.1	+006.3	+006.5
36.8750	+006.6	+006.8	+007.1	+007.1	+007.1

RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H103		
37.5000	+007.1	+007.2	+007.2	+007.1	+007.0	
38.1250	+007.0	+006.9	+006.8	+006.7	+006.5	
38.7500	+006.6	+006.3	+006.1	+006.1	+006.1	
39.3750	+006.0	+006.0	+006.0	+006.0	+006.1	
40.0000	+006.1	+006.2	+006.3	+006.6	+006.5	
40.6250	+006.6	+006.7	+006.7	+007.0	+007.1	
41.2500	+007.1	+007.1	+007.2	+007.2	+007.2	
41.8750	+007.2	+007.2	+007.2	+007.2	+007.2	
42.5000	+007.1	+007.1	+006.9	+006.9	+006.7	
43.1250	+006.6	+006.6	+006.4	+006.4	+006.4	
43.7500	+006.3	+006.3	+006.1	+006.1	+006.1	
44.3750	+006.1	+006.4	+006.2	+006.3	+006.3	
45.0000	+006.3	+006.5	+006.5	+006.5	+006.5	
45.6250	+006.5	+006.5	+006.5	+006.3	+006.3	
46.2500	+006.3	+006.3	+006.0	+006.0	+005.8	
46.8750	+005.8	+005.7	+005.5	+005.5	+005.4	
47.5000	+005.2	+005.1	+005.1	+005.1	+005.0	
48.1250	+005.0	+005.0	+005.0	+005.0	+005.0	
48.7500	+005.0	+005.0	+005.1	+005.2	+005.4	
49.3750	+005.3	+005.3	+005.3	+005.4	+005.5	
50.0000	+005.5	+005.4	+005.4	+005.4	+005.4	
50.6250	+005.4	+005.3	+005.1	+005.1	+005.0	
51.2500	+005.0	+004.9	+004.9	+004.8	+004.7	
51.8750	+004.7	+004.7	+004.7	+004.6	+004.6	
52.5000	+004.6	+004.6	+004.6	+004.7	+004.6	
53.1250	+004.5	+004.6	+004.6	+004.6	+004.3	
53.7500	+004.8	+005.0	+005.0	+005.0	+005.0	
54.3750	+005.0	+005.2	+005.1	+005.1	+005.0	
55.0000	+004.8	+004.5	+004.2	+003.9	+003.8	
55.6250	+003.4	+003.2	+003.0	+002.7	+002.5	
56.2500	+002.4	+002.2	+002.1	+001.9	+001.3	
56.8750	+001.5	+001.4	+001.0	+000.8	+000.6	
57.5000	+000.3	+000.3	+000.3	+000.6	+000.8	
58.1250	+001.3	+001.6	+002.0	+002.4	+002.3	
58.7500	+003.2	+003.5	+003.9	+004.2	+004.6	
59.3750	+004.7	+004.9	+005.2	+005.4	+013.4	

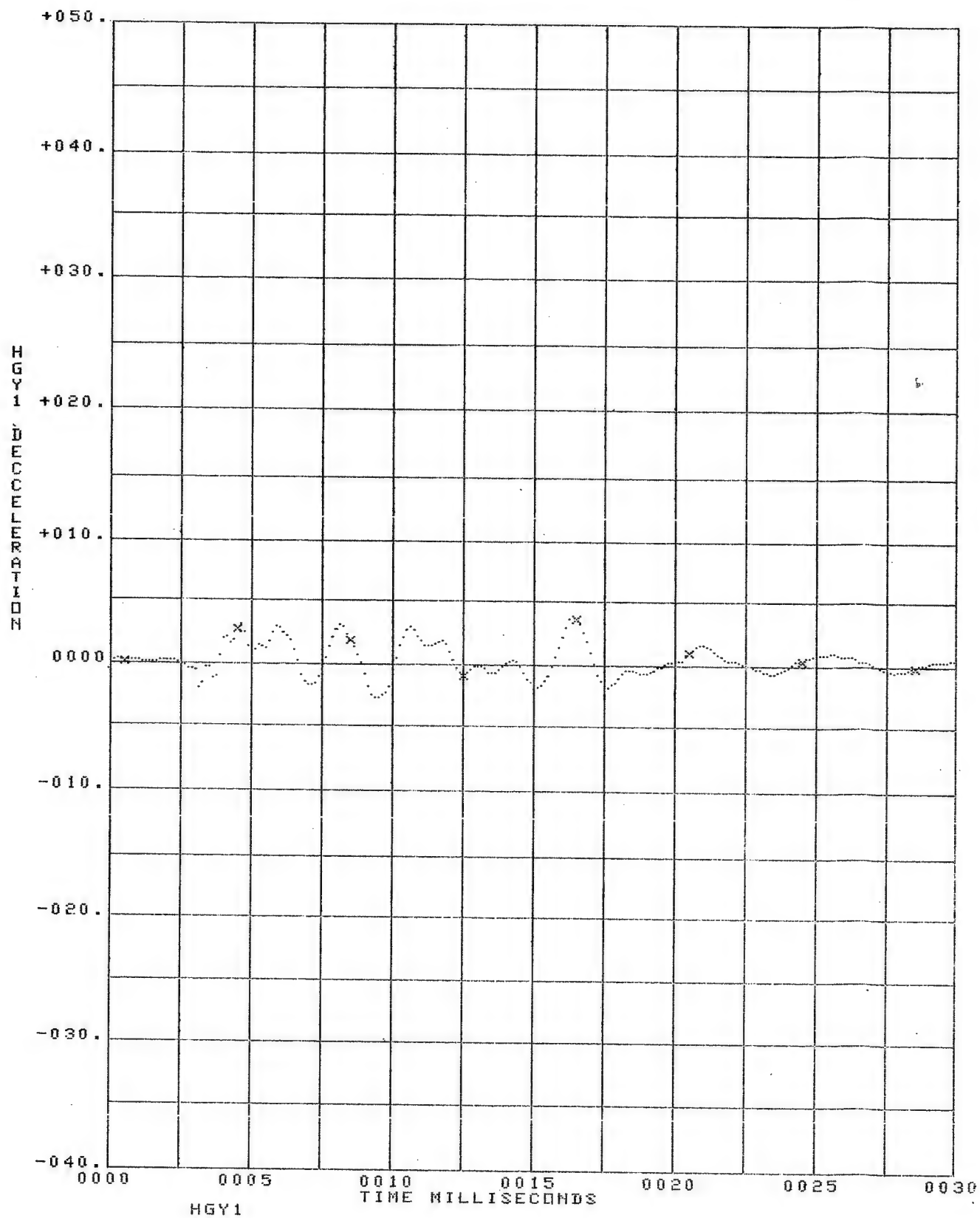
AMAX= +105.9

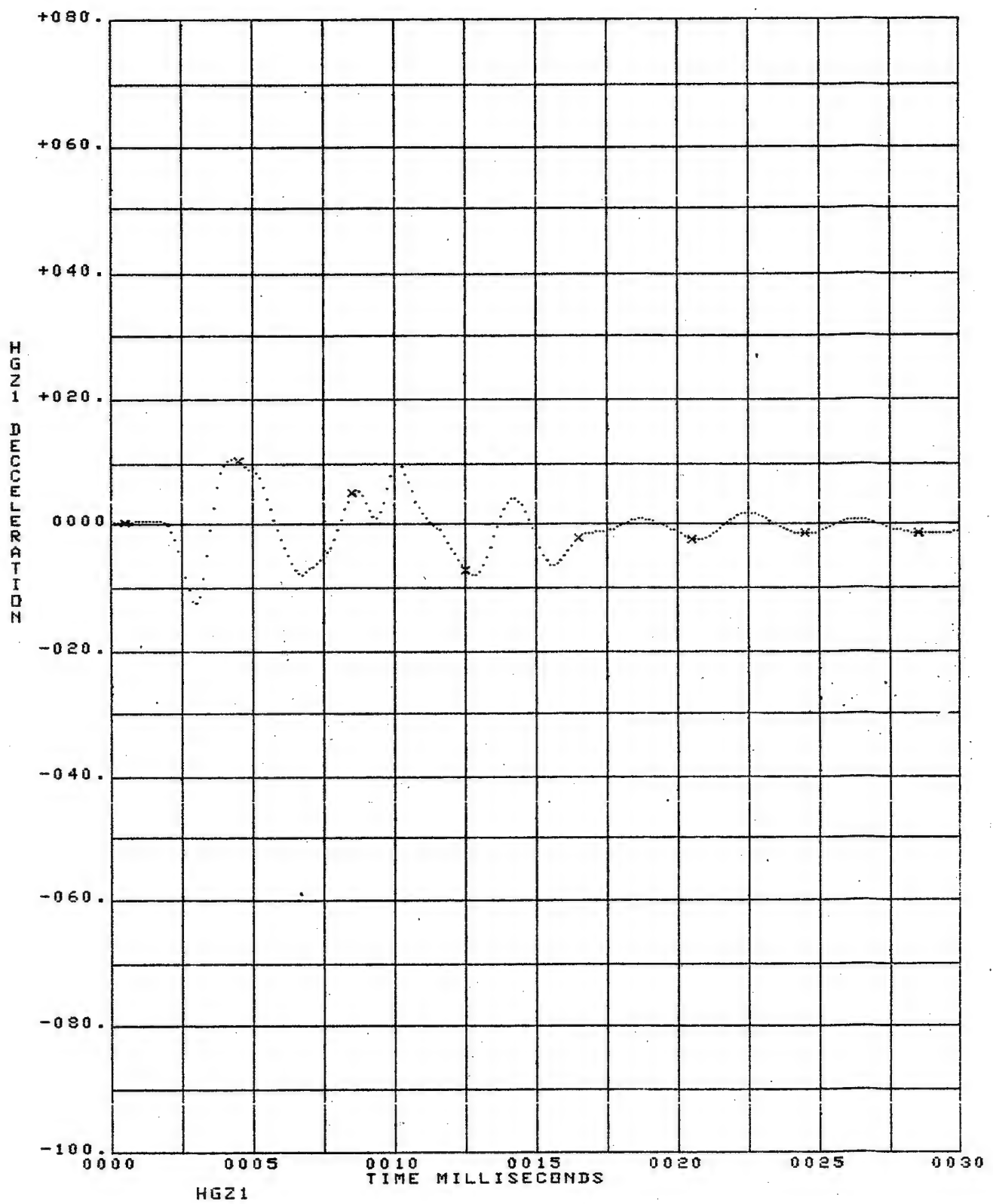
AT T=003.6

Head Impact
Dummy No. 32, Run No. 1

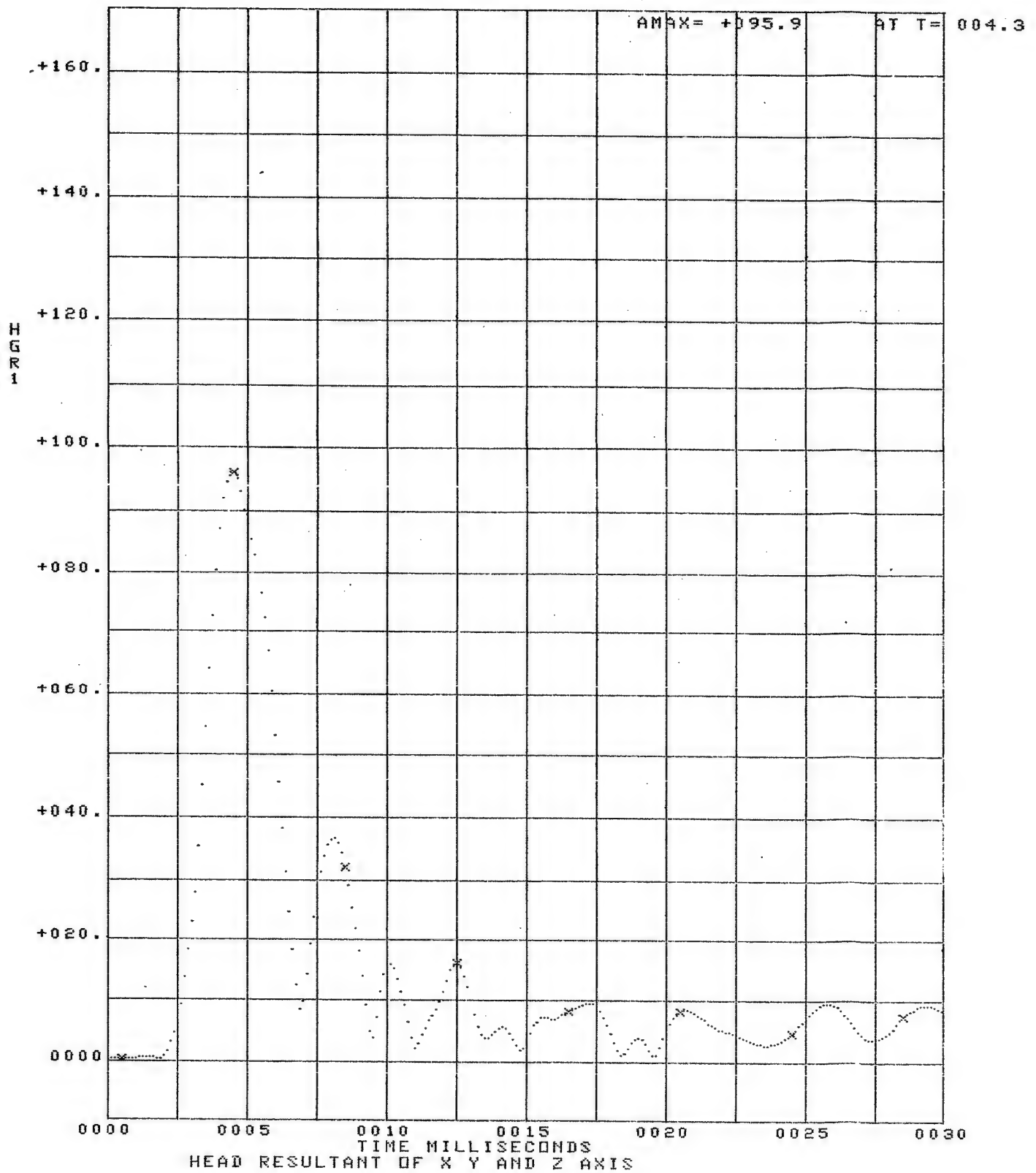


HEAD IMPACT
TEST H101





HEAD IMPACT
TEST H101



RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H101

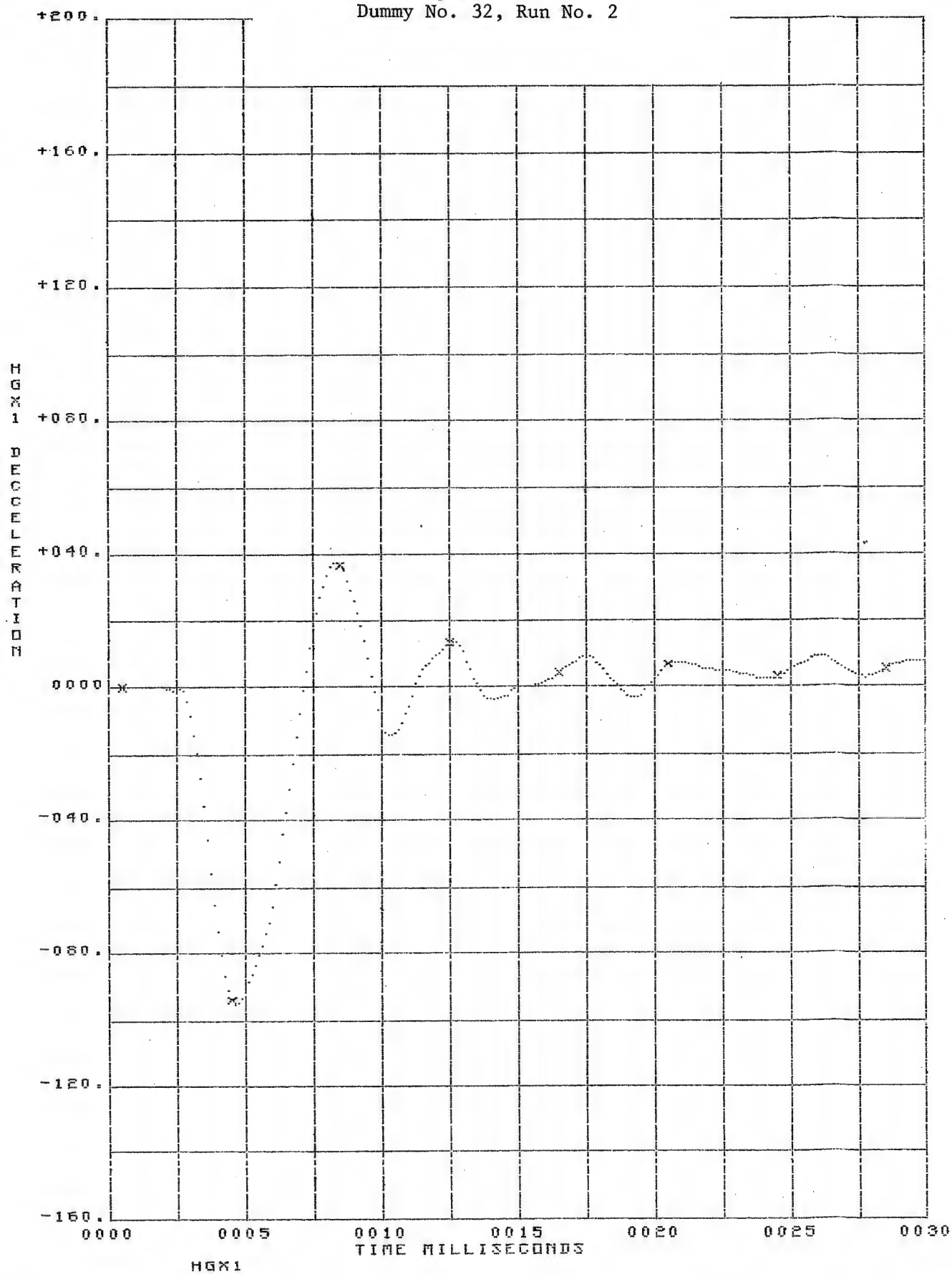
TIME					
0.00000	+000.1	+000.1	+000.1	+000.2	+000.1
0.62500	+000.1	+000.2	+000.2	+000.3	+000.3
1.25000	+000.3	+000.3	+000.3	+000.4	+000.1
1.87500	+000.6	+001.5	+002.8	+004.4	+006.5
2.50000	+009.0	+013.0	+017.9	+022.7	+027.6
3.12500	+035.0	+044.6	+054.3	+063.5	+072.2
3.75000	+080.2	+087.0	+091.7	+094.5	+095.8
4.37500	+095.9	+094.8	+092.8	+090.2	+087.5
5.00000	+085.2	+082.8	+079.8	+076.2	+072.0
5.62500	+066.5	+060.0	+052.7	+045.1	+037.9
6.25000	+031.0	+024.5	+017.8	+011.3	+008.1
6.87500	+009.4	+013.7	+018.8	+023.5	+027.7
7.50000	+031.1	+033.6	+039.3	+036.1	+036.2
8.12500	+035.6	+034.0	+031.8	+028.8	+025.2
8.75000	+021.5	+017.6	+013.4	+008.8	+004.6
9.37500	+003.6	+006.9	+010.8	+013.7	+015.3
10.00000	+015.5	+014.6	+013.0	+010.9	+008.8
10.62500	+006.8	+003.6	+002.0	+002.6	+004.0
11.25000	+005.3	+006.3	+007.0	+008.1	+009.4
11.87500	+010.9	+012.7	+014.4	+015.3	+015.5
12.50000	+014.8	+013.4	+011.6	+009.5	+007.4
13.12500	+005.5	+004.2	+003.6	+003.7	+004.5
13.75000	+004.6	+005.2	+005.4	+005.1	+004.8
14.37500	+003.4	+002.5	+001.8	+002.0	+003.2
15.00000	+004.4	+005.6	+006.2	+006.8	+006.9
15.62500	+006.8	+006.7	+006.7	+007.0	+007.3
16.25000	+007.7	+007.9	+008.2	+008.4	+008.6
16.87500	+008.8	+009.1	+009.1	+009.0	+008.8
17.50000	+007.9	+006.8	+005.7	+004.4	+002.9
18.12500	+001.6	+000.8	+001.1	+002.0	+002.8
18.75000	+003.4	+003.6	+003.3	+002.7	+001.8
19.37500	+001.0	+001.0	+002.1	+003.6	+004.9
20.00000	+006.0	+007.0	+007.7	+008.0	+008.2
20.62500	+009.1	+008.0	+007.7	+007.2	+006.8
21.25000	+006.5	+006.0	+005.7	+005.4	+005.0
21.87500	+004.9	+004.7	+004.4	+004.4	+004.4
22.50000	+004.0	+003.7	+003.4	+003.2	+002.9
23.12500	+002.7	+002.6	+002.5	+002.5	+002.6
23.75000	+002.7	+002.9	+003.2	+003.6	+004.0
24.37500	+004.5	+005.0	+005.6	+006.1	+006.8
25.00000	+007.4	+007.9	+008.5	+008.9	+009.2
25.62500	+009.3	+009.2	+009.0	+008.6	+008.1
26.25000	+007.5	+006.8	+006.1	+005.4	+004.7
26.87500	+004.2	+003.7	+003.5	+003.4	+003.4
27.50000	+003.6	+003.8	+004.2	+004.7	+005.3
28.12500	+005.9	+006.6	+007.0	+007.5	+008.0
28.75000	+008.3	+008.6	+008.9	+009.0	+009.0
29.37500	+008.8	+008.6	+008.4	+008.3	+008.2
30.00000	+007.5	+007.2	+006.8	+006.6	+006.5
30.62500	+006.0	+005.8	+005.7	+005.6	+005.5
31.25000	+005.6	+005.6	+005.6	+005.7	+005.7
31.87500	+005.9	+005.9	+006.1	+006.1	+006.2
32.50000	+006.6	+006.3	+006.4	+006.4	+006.4
33.12500	+006.5	+006.7	+006.8	+006.9	+006.9
33.75000	+007.0	+007.0	+007.0	+007.0	+007.0
34.37500	+006.9	+006.9	+006.8	+006.6	+006.5
35.00000	+006.4	+006.1	+005.9	+005.8	+005.8
35.62500	+005.5	+005.3	+005.3	+005.3	+005.3
36.25000	+005.2	+005.3	+005.5	+005.5	+005.5
36.87500	+006.0	+006.2	+006.3	+006.6	+006.6

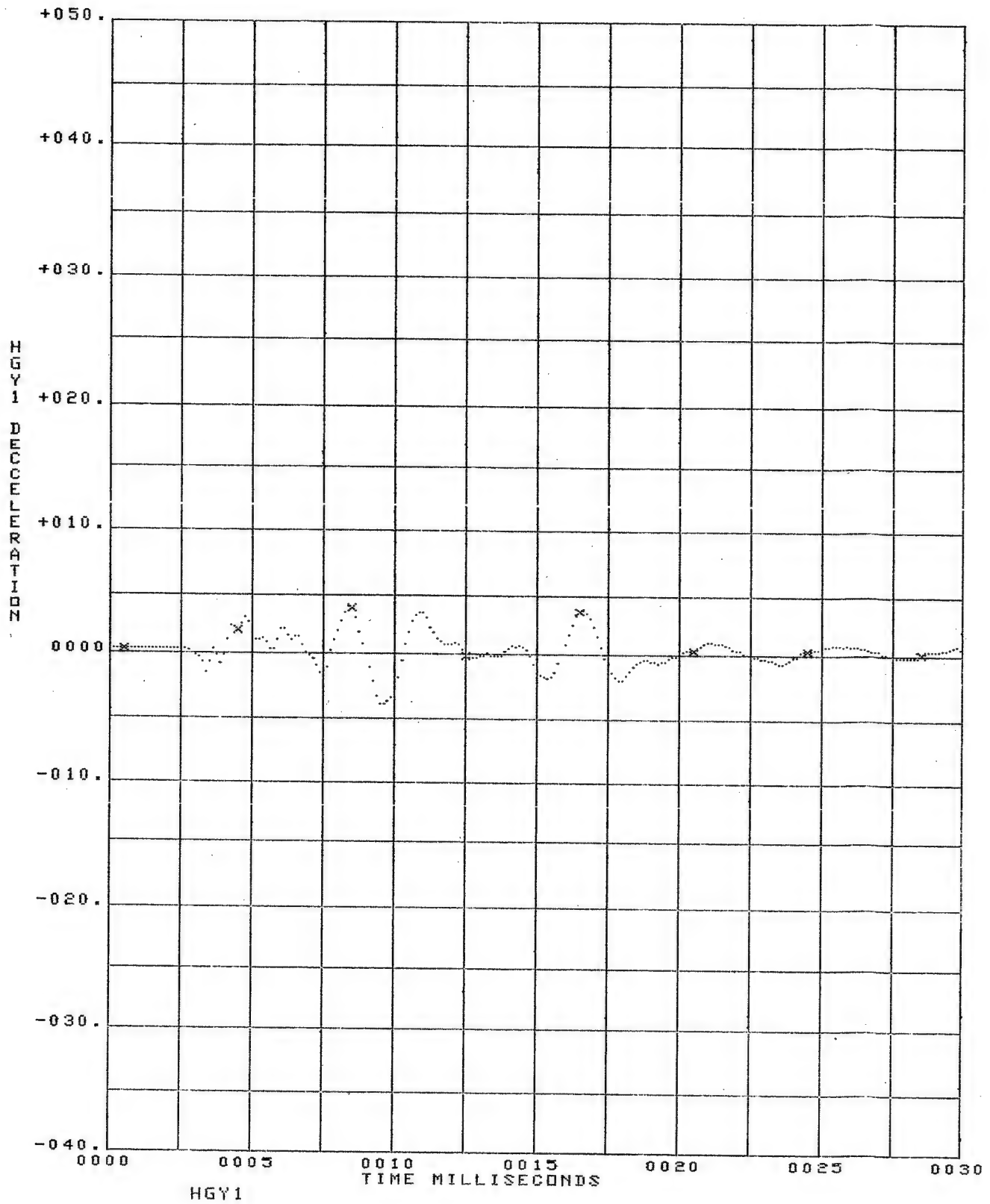
RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H101		
37.5000	+006.9	+006.8	+007.0	+007.0	+007.1	
38.1250	+006.9	+006.9	+006.7	+006.7	+006.6	
38.7500	+006.5	+006.4	+006.1	+006.1	+005.9	
39.3750	+005.9	+005.8	+005.7	+005.7	+005.7	
40.0000	+005.7	+005.7	+005.7	+005.7	+005.9	
40.6250	+005.8	+006.0	+006.2	+006.2	+006.4	
41.2500	+006.5	+006.6	+006.6	+006.6	+006.7	
41.8750	+006.7	+006.8	+006.9	+006.9	+006.9	
42.5000	+006.9	+006.8	+006.8	+006.7	+006.6	
43.1250	+006.5	+006.5	+006.4	+006.3	+006.3	
43.7500	+006.0	+006.0	+006.0	+005.9	+005.9	
44.3750	+005.9	+005.9	+005.9	+005.9	+005.9	
45.0000	+005.9	+005.9	+005.9	+006.1	+006.1	
45.6250	+006.1	+006.1	+006.1	+006.2	+006.3	
46.2500	+006.4	+006.3	+006.3	+006.3	+006.3	
46.8750	+006.3	+006.3	+006.0	+006.0	+006.0	
47.5000	+005.8	+005.8	+005.8	+005.7	+005.5	
48.1250	+005.5	+005.5	+005.5	+005.4	+005.5	
48.7500	+005.4	+005.5	+005.5	+005.5	+005.6	
49.3750	+005.4	+005.6	+005.6	+005.6	+005.6	
50.0000	+005.5	+005.5	+005.6	+005.6	+005.7	
50.6250	+005.7	+005.7	+005.7	+005.7	+005.5	
51.2500	+005.5	+005.6	+005.6	+005.6	+005.5	
51.8750	+005.5	+005.4	+005.4	+005.4	+005.4	
52.5000	+005.4	+005.2	+005.3	+005.3	+005.2	
53.1250	+005.2	+005.2	+005.2	+005.2	+005.2	
53.7500	+005.2	+005.2	+005.2	+005.1	+005.1	
54.3750	+005.2	+005.2	+005.2	+005.2	+005.2	
55.0000	+005.2	+005.2	+005.2	+005.2	+005.2	
55.6250	+005.2	+005.2	+005.1	+005.0	+005.0	
56.2500	+005.0	+005.0	+005.0	+005.0	+005.0	
56.8750	+005.0	+005.0	+005.0	+005.0	+005.0	
57.5000	+004.9	+004.9	+005.0	+004.9	+004.9	
58.1250	+004.7	+004.7	+004.7	+004.5	+004.3	
58.7500	+004.0	+003.7	+003.5	+003.2	+002.8	
59.3750	+002.6	+002.1	+001.9	+001.7	+013.4	

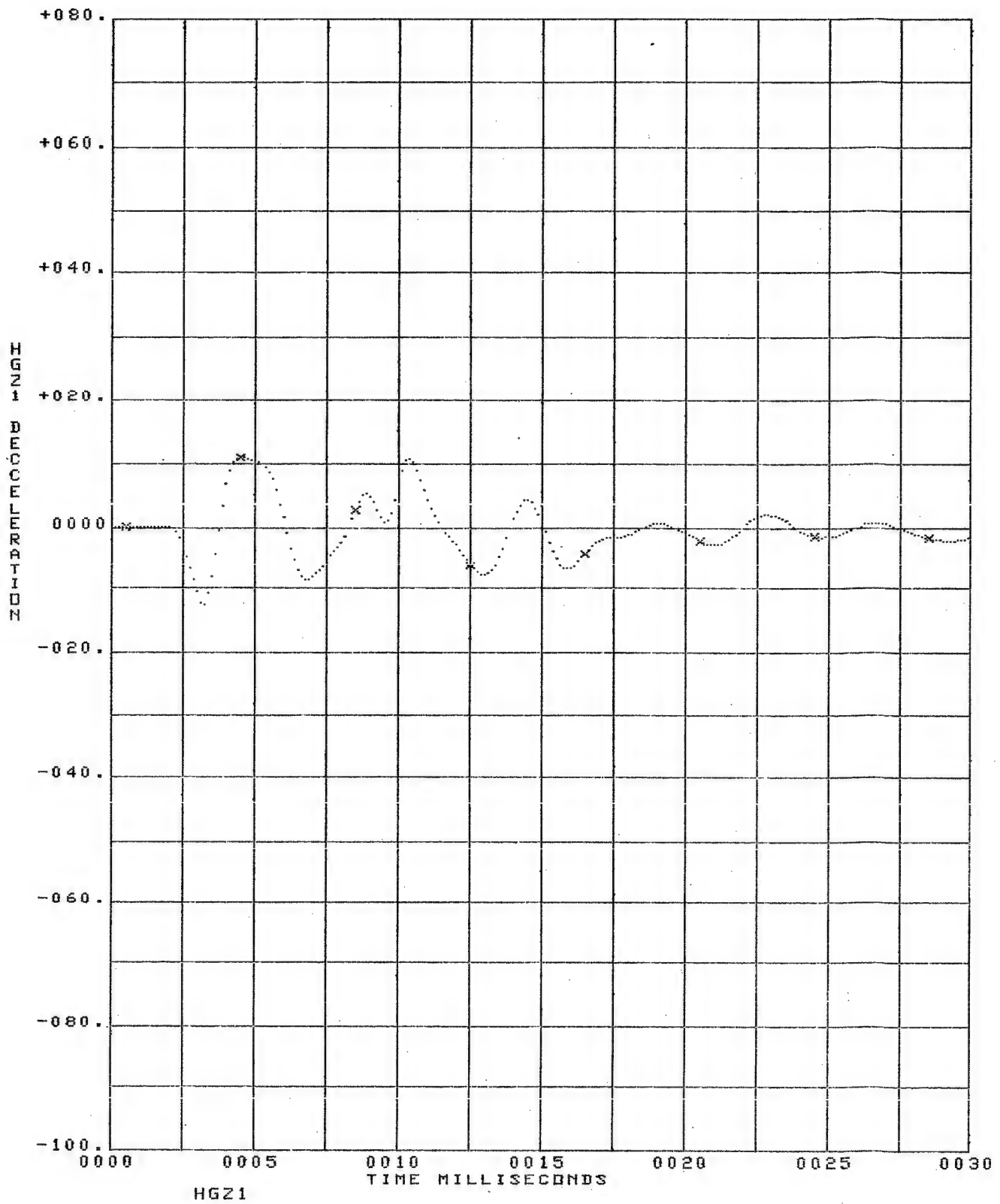
AMAX= +095.9

AT T=004.3

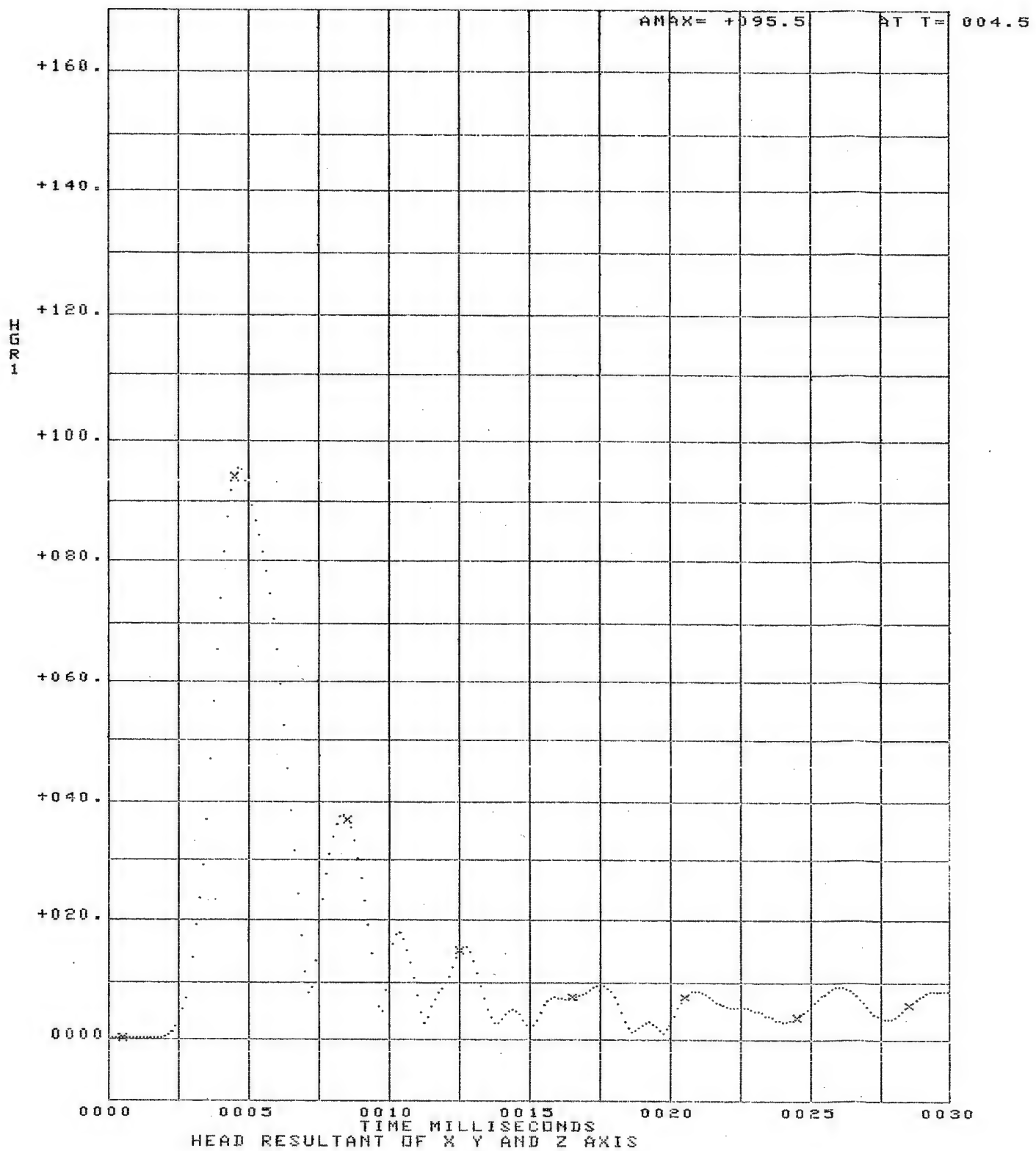
Head Impact
Dummy No. 32, Run No. 2







HEAD IMPACT
TEST H102



RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H102

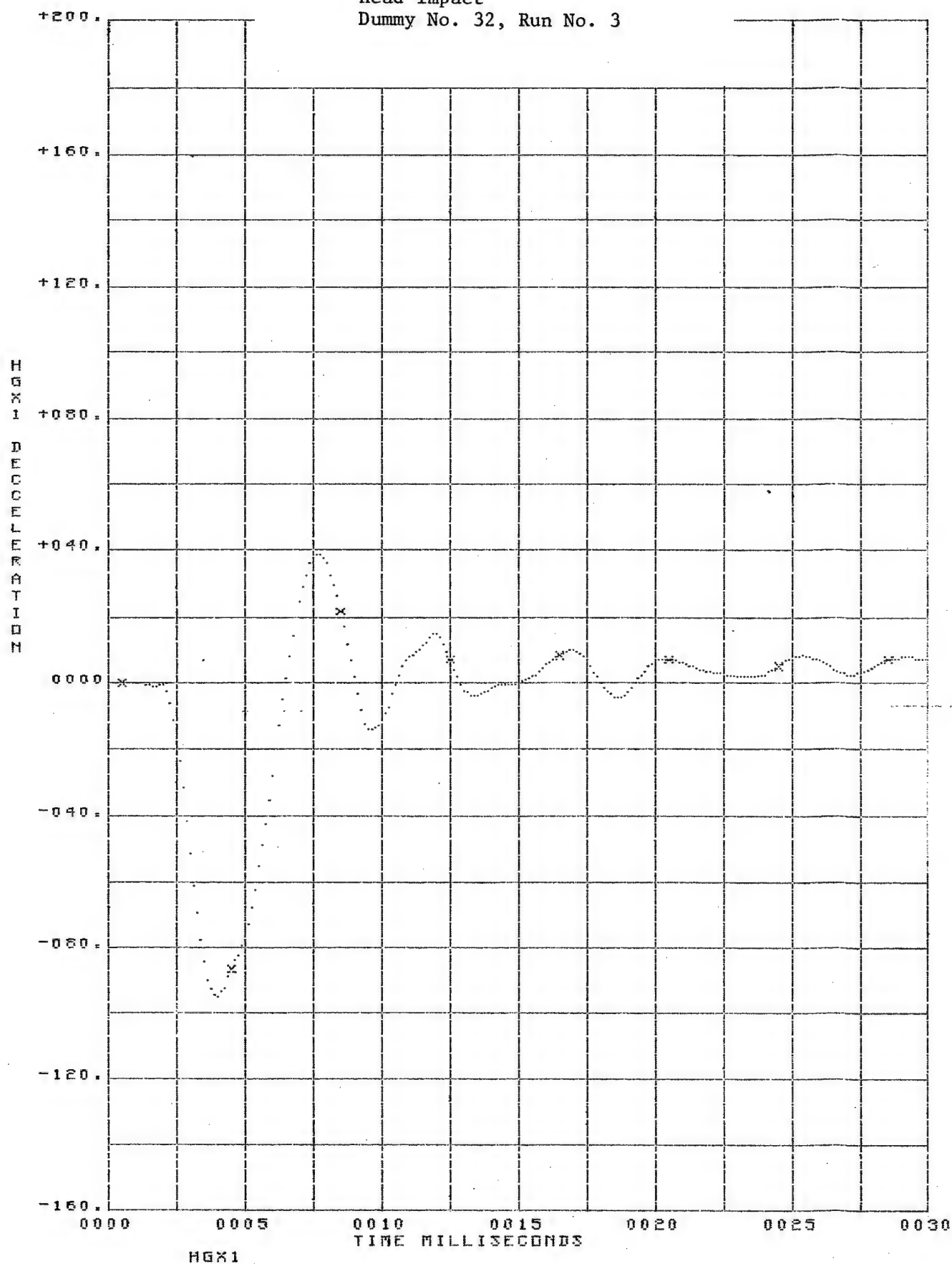
TIME					
0.0000	+000.0	+000.0	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.0	+000.0	+000.0	+000.0	+000.0
1.8750	+000.1	+000.4	+001.0	+001.9	+003.2
2.5000	+004.9	+006.9	+009.6	+013.7	+018.8
3.1250	+023.1	+028.6	+036.5	+046.5	+056.1
3.7500	+065.3	+073.6	+081.3	+087.4	+091.7
4.3750	+094.3	+095.5	+095.3	+093.9	+091.7
5.0000	+089.1	+086.5	+084.0	+081.2	+078.0
5.6250	+074.4	+070.4	+065.4	+059.2	+052.1
6.2500	+045.0	+038.1	+031.0	+023.8	+017.1
6.8750	+011.3	+007.9	+008.9	+013.2	+018.3
7.5000	+022.9	+027.0	+030.7	+033.7	+035.8
8.1250	+037.0	+037.2	+036.6	+035.2	+032.8
8.7500	+029.7	+026.4	+022.7	+018.8	+014.4
9.3750	+009.7	+005.5	+004.7	+008.4	+012.6
10.0000	+015.8	+017.3	+017.5	+016.3	+015.0
10.6250	+012.8	+010.4	+007.4	+004.4	+002.7
11.2500	+003.6	+005.4	+006.7	+007.9	+008.7
11.8750	+009.7	+010.8	+012.2	+013.6	+014.8
12.5000	+015.4	+015.4	+014.6	+013.1	+011.2
13.1250	+009.1	+007.0	+005.0	+003.6	+002.7
13.7500	+002.7	+003.3	+004.1	+004.6	+004.9
14.3750	+004.7	+004.1	+003.2	+002.1	+001.8
15.0000	+002.1	+003.2	+004.5	+005.6	+006.5
15.6250	+007.0	+007.1	+007.0	+006.8	+006.7
16.2500	+006.8	+007.1	+007.2	+007.5	+007.6
16.8750	+007.9	+008.4	+008.9	+009.2	+009.2
17.5000	+009.1	+008.7	+008.1	+007.1	+005.8
18.1250	+004.4	+003.0	+001.7	+000.8	+001.0
18.7500	+001.8	+002.3	+002.7	+002.8	+002.8
19.3750	+002.0	+001.2	+000.6	+001.4	+002.0
20.0000	+003.8	+005.1	+006.1	+007.1	+007.7
20.6250	+008.2	+008.1	+008.1	+007.9	+007.7
21.2500	+007.1	+006.7	+006.3	+005.8	+005.7
21.8750	+005.4	+005.3	+005.2	+005.2	+005.2
22.5000	+005.2	+005.1	+005.0	+004.8	+004.6
23.1250	+004.3	+004.0	+003.9	+003.6	+003.3
23.7500	+003.1	+003.0	+002.9	+003.1	+003.2
24.3750	+003.7	+004.1	+004.5	+005.0	+005.5
25.0000	+006.1	+006.7	+007.3	+007.7	+008.2
25.6250	+008.7	+008.9	+009.0	+009.0	+008.8
26.2500	+008.4	+007.9	+007.3	+006.7	+006.1
26.8750	+005.4	+004.8	+004.3	+003.9	+003.5
27.5000	+003.3	+003.3	+003.5	+003.7	+004.1
28.1250	+004.6	+005.1	+005.6	+006.2	+006.7
28.7500	+007.1	+007.5	+007.9	+008.1	+008.3
29.3750	+008.3	+008.3	+008.2	+008.1	+007.9
30.0000	+007.8	+007.5	+007.2	+006.9	+006.5
30.6250	+006.3	+006.2	+005.8	+005.7	+005.6
31.2500	+005.5	+005.4	+005.4	+005.4	+005.4
31.8750	+005.4	+005.4	+005.5	+005.5	+005.7
32.5000	+005.9	+005.9	+006.0	+006.1	+006.2
33.1250	+006.3	+006.5	+006.5	+006.5	+006.6
33.7500	+006.5	+006.6	+006.7	+006.7	+006.6
34.3750	+006.6	+006.7	+006.6	+006.5	+006.4
35.0000	+006.3	+006.2	+006.1	+006.1	+006.0
35.6250	+005.9	+005.7	+005.7	+005.5	+005.5
36.2500	+005.5	+005.4	+005.4	+005.4	+005.6
36.8750	+005.8	+005.8	+005.9	+006.2	+006.4

RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H102		
37.5000	+006.6	+006.8	+007.0	+007.2	+007.2	+007.2
38.1250	+007.3	+007.4	+007.4	+007.4	+007.4	+007.2
38.7500	+007.1	+006.9	+006.7	+006.6	+006.6	+006.5
39.3750	+006.3	+006.3	+006.0	+006.0	+006.0	+006.0
40.0000	+006.0	+005.9	+005.9	+005.9	+005.9	+005.9
40.6250	+005.9	+006.1	+006.1	+006.1	+006.1	+006.4
41.2500	+006.4	+006.5	+006.6	+006.6	+006.6	+006.6
41.8750	+006.6	+006.6	+006.7	+006.6	+006.6	+006.6
42.5000	+006.7	+006.7	+006.8	+006.7	+006.7	+006.8
43.1250	+006.9	+006.9	+006.9	+006.9	+006.7	+006.6
43.7500	+006.5	+006.3	+006.3	+006.1	+006.1	+006.0
44.3750	+006.0	+005.8	+005.8	+005.8	+005.8	+005.8
45.0000	+005.8	+005.8	+005.8	+005.8	+005.8	+005.8
45.6250	+005.8	+005.8	+005.9	+005.9	+005.9	+006.0
46.2500	+006.0	+006.0	+006.0	+006.0	+006.0	+006.0
46.8750	+006.0	+006.0	+006.0	+006.0	+006.0	+005.9
47.5000	+005.9	+005.8	+005.8	+005.7	+005.7	+005.7
48.1250	+005.5	+005.5	+005.4	+005.4	+005.4	+005.3
48.7500	+005.3	+005.2	+005.2	+005.2	+005.2	+005.2
49.3750	+005.3	+005.3	+005.3	+005.3	+005.3	+005.3
50.0000	+005.3	+005.4	+005.4	+005.4	+005.4	+005.4
50.6250	+005.4	+005.4	+005.4	+005.4	+005.4	+005.4
51.2500	+005.4	+005.4	+005.4	+005.3	+005.3	+005.3
51.8750	+005.2	+005.2	+005.2	+005.2	+005.2	+005.2
52.5000	+005.1	+005.2	+005.1	+005.1	+005.1	+005.1
53.1250	+005.1	+005.1	+005.1	+005.1	+005.1	+005.1
53.7500	+005.0	+005.0	+005.0	+005.1	+005.1	+005.1
54.3750	+005.1	+005.1	+005.1	+005.2	+005.2	+005.2
55.0000	+005.1	+005.1	+005.1	+005.1	+005.1	+005.1
55.6250	+005.0	+005.0	+005.0	+004.8	+004.8	+004.6
56.2500	+004.5	+004.2	+004.1	+003.9	+003.8	+003.8
56.8750	+003.8	+003.8	+003.9	+003.9	+003.7	+003.7
57.5000	+003.2	+003.0	+002.5	+002.0	+001.5	+001.5
58.1250	+001.2	+000.9	+000.6	+000.3	+000.2	+000.2
58.7500	+000.3	+000.4	+000.6	+000.9	+001.2	+001.2
59.3750	+001.5	+001.8	+002.2	+002.5	+002.5	+002.5

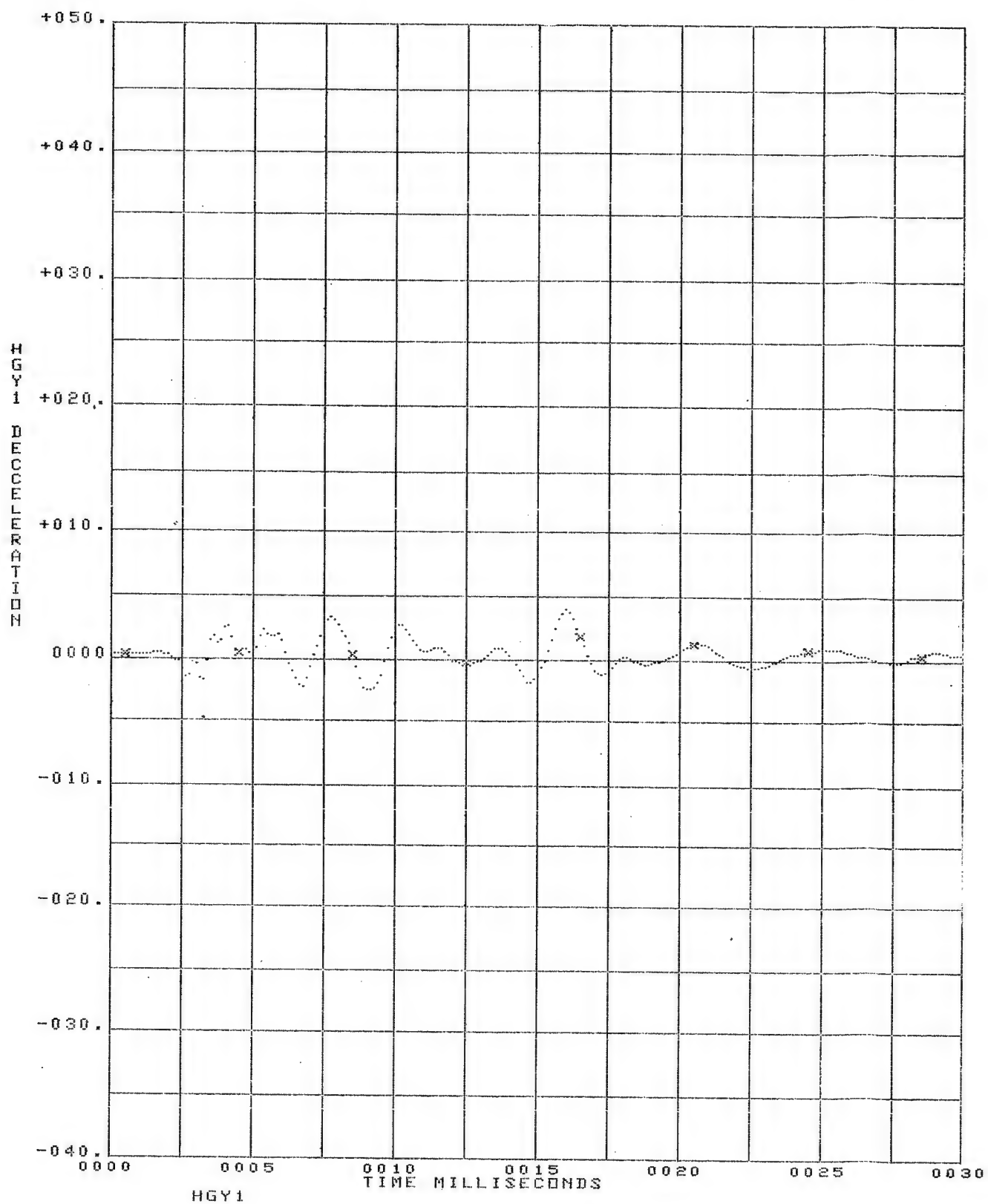
AMAX= +095.5

AT T=004.5

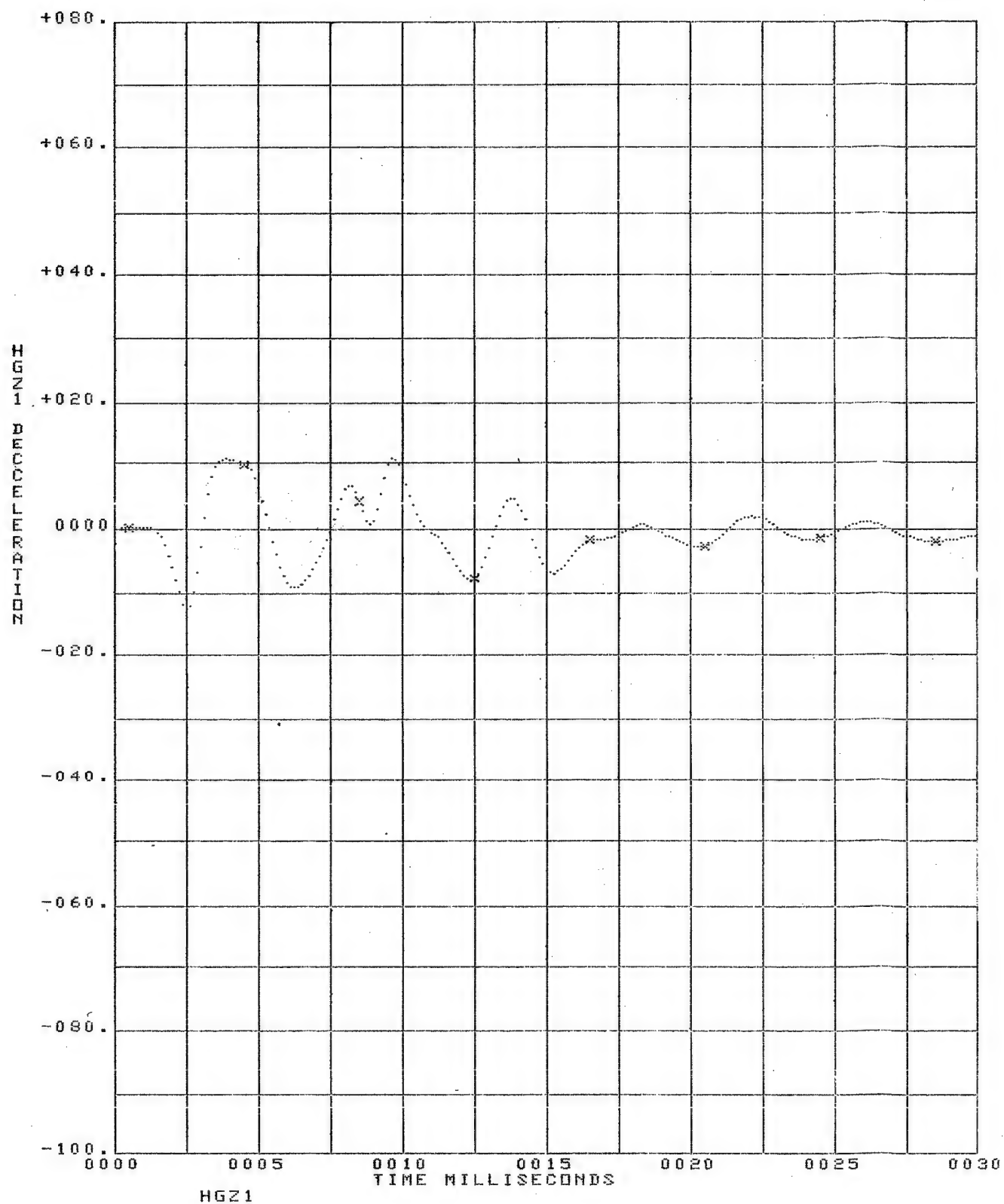
Head Impact
Dummy No. 32, Run No. 3



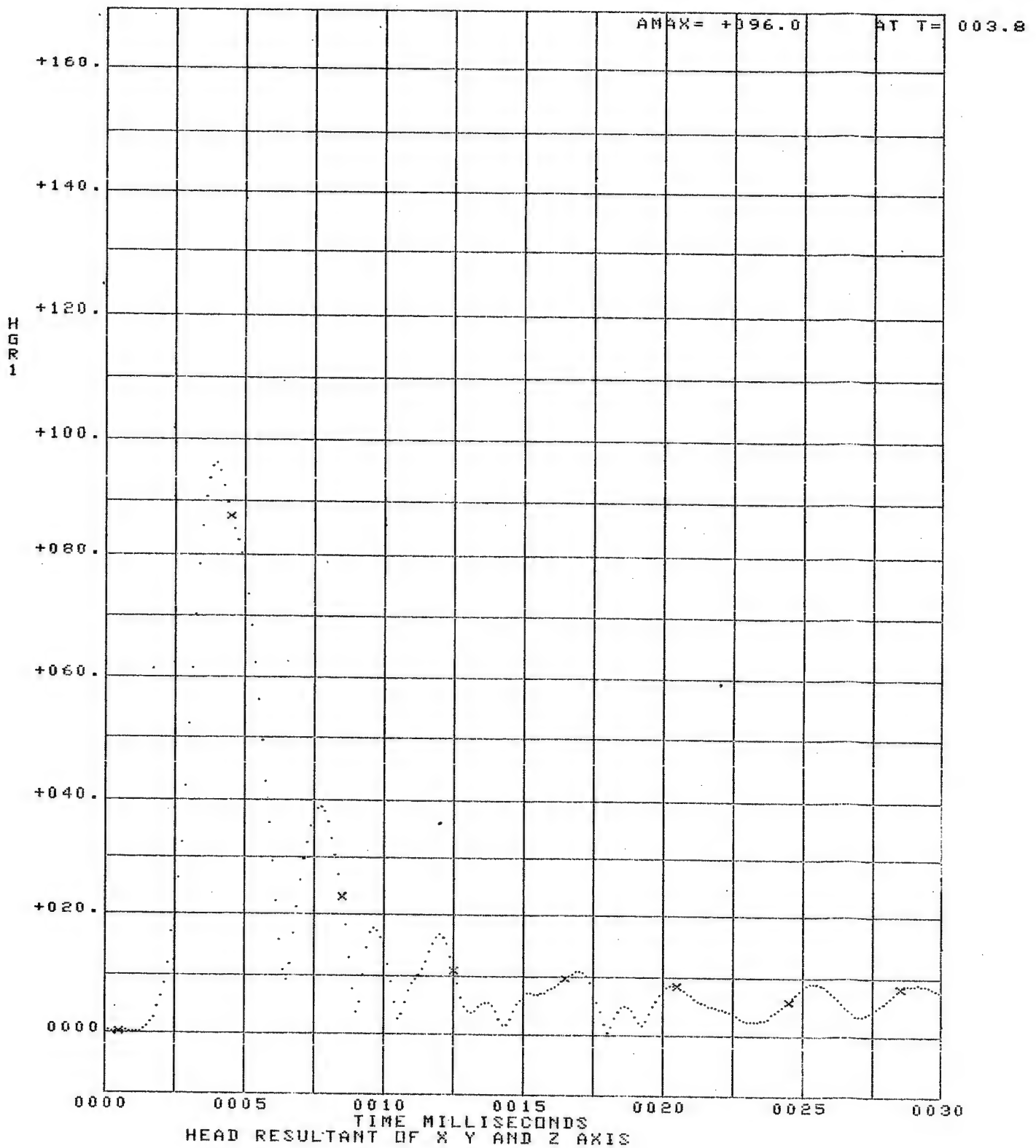
HEAD IMPACT
TEST H103



HEAD IMPACT
TEST H103



HEAD IMPACT
TEST H103



RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H103

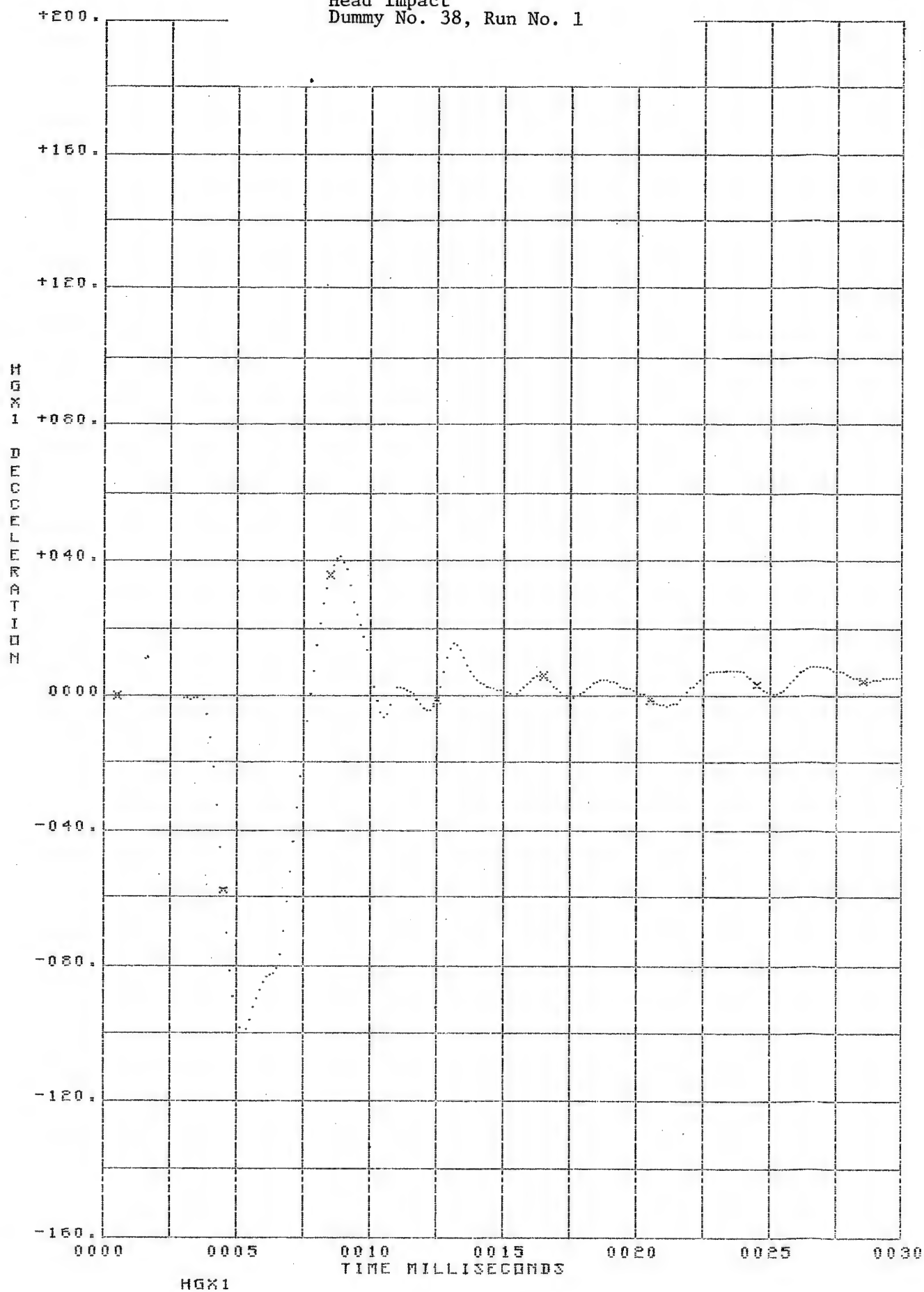
TIME					
0.0000	+000.1	+000.0	+000.0	+000.0	+000.0
0.6250	+000.1	+000.0	+000.0	+000.0	+000.0
1.2500	+000.3	+000.8	+001.5	+002.5	+004.1
1.8750	+006.1	+008.3	+011.6	+016.5	+021.5
2.5000	+026.0	+032.6	+041.8	+051.8	+061.0
3.1250	+069.9	+078.2	+085.2	+090.5	+093.9
3.7500	+095.7	+096.0	+094.8	+092.4	+089.6
4.3750	+087.1	+084.8	+082.5	+079.9	+077.0
5.0000	+073.2	+068.2	+062.2	+055.2	+049.0
5.6250	+042.6	+035.9	+028.9	+022.0	+015.5
6.2500	+010.5	+009.0	+011.8	+016.3	+020.9
6.8750	+025.3	+029.3	+032.7	+035.4	+037.5
7.5000	+038.4	+038.5	+037.8	+036.0	+033.2
8.1250	+030.1	+026.6	+022.5	+017.8	+012.6
8.7500	+007.5	+003.9	+003.1	+010.0	+014.2
9.3750	+016.7	+017.5	+017.0	+015.8	+013.9
10.0000	+011.5	+008.6	+005.3	+002.5	+003.1
10.6250	+005.3	+007.2	+008.3	+009.1	+009.9
11.2500	+010.9	+012.2	+013.7	+015.0	+015.9
11.8750	+016.4	+016.0	+014.8	+013.0	+010.6
12.5000	+008.3	+006.1	+004.5	+003.6	+003.4
13.1250	+003.7	+004.3	+004.9	+005.3	+005.1
13.7500	+004.6	+003.7	+002.5	+001.4	+001.4
14.3750	+002.4	+003.7	+004.9	+005.8	+006.4
15.0000	+006.8	+006.9	+006.7	+006.7	+006.8
15.6250	+007.0	+007.3	+007.7	+008.0	+008.4
16.2500	+008.8	+009.4	+009.7	+010.2	+010.5
16.8750	+010.6	+010.4	+009.8	+008.7	+007.2
17.5000	+005.5	+003.6	+001.8	+000.1	+001.3
18.1250	+002.7	+003.6	+004.3	+004.6	+004.4
18.7500	+003.9	+002.9	+001.9	+001.4	+002.1
19.3750	+003.3	+004.6	+005.7	+006.6	+007.5
20.0000	+007.9	+008.1	+008.2	+008.1	+007.8
20.6250	+007.4	+006.9	+006.5	+006.1	+005.7
21.2500	+005.5	+005.1	+004.8	+004.6	+004.3
21.8750	+004.1	+004.1	+003.9	+003.7	+003.4
22.5000	+003.1	+002.7	+002.4	+002.2	+002.2
23.1250	+002.2	+002.3	+002.4	+002.5	+002.8
23.7500	+003.3	+003.7	+004.2	+004.6	+005.1
24.3750	+005.7	+006.3	+006.9	+007.4	+008.0
25.0000	+008.4	+008.6	+008.8	+008.7	+008.5
25.6250	+008.2	+007.8	+007.2	+006.7	+006.1
26.2500	+005.4	+004.7	+004.1	+003.7	+003.3
26.8750	+003.1	+003.1	+003.3	+003.6	+003.9
27.5000	+004.4	+005.0	+005.5	+006.0	+006.5
28.1250	+006.9	+007.4	+007.9	+008.2	+008.3
28.7500	+008.4	+008.5	+008.6	+008.5	+008.4
29.3750	+008.1	+007.9	+007.7	+007.5	+007.3
30.0000	+007.1	+006.9	+006.8	+006.5	+006.3
30.6250	+006.2	+006.1	+005.9	+005.9	+005.9
31.2500	+005.9	+005.9	+006.0	+006.0	+006.0
31.8750	+006.1	+006.1	+006.3	+006.4	+006.5
32.5000	+006.5	+006.6	+006.9	+007.0	+007.0
33.1250	+007.1	+007.0	+007.1	+007.2	+007.2
33.7500	+007.1	+007.1	+007.0	+007.0	+006.9
34.3750	+006.6	+006.5	+006.4	+006.2	+006.0
35.0000	+005.9	+005.7	+005.6	+005.5	+005.5
35.6250	+005.4	+005.4	+005.4	+005.5	+005.7
36.2500	+005.7	+005.8	+006.0	+006.1	+006.2
36.8750	+006.3	+006.5	+006.6	+006.7	+006.8

RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H103		
37.5000	+006.8	+006.9	+006.9	+006.9	+006.9	+006.8
38.1250	+006.6	+006.5	+006.4	+006.4	+006.3	+006.2
38.7500	+006.1	+005.8	+005.8	+005.8	+005.8	+005.8
39.3750	+005.8	+005.7	+005.7	+005.7	+005.7	+005.7
40.0000	+005.7	+005.8	+005.8	+005.8	+005.8	+006.0
40.6250	+006.2	+006.2	+006.3	+006.3	+006.3	+006.3
41.2500	+006.5	+006.5	+006.5	+006.5	+006.5	+006.5
41.8750	+006.3	+006.3	+006.3	+006.3	+006.2	+006.1
42.5000	+006.1	+005.9	+005.7	+005.8	+005.8	+005.8
43.1250	+005.7	+005.6	+005.5	+005.5	+005.5	+005.4
43.7500	+005.3	+005.3	+005.2	+005.2	+005.2	+005.2
44.3750	+005.2	+005.2	+005.2	+005.2	+005.4	+005.4
45.0000	+005.6	+005.6	+005.7	+005.8	+005.8	+005.8
45.6250	+005.8	+006.0	+006.1	+006.1	+006.1	+006.1
46.2500	+006.1	+006.1	+006.0	+006.0	+006.0	+006.0
46.8750	+005.8	+005.8	+005.8	+005.7	+005.7	+005.6
47.5000	+005.9	+005.4	+005.4	+005.4	+005.4	+005.3
48.1250	+005.3	+005.3	+005.3	+005.3	+005.3	+005.3
48.7500	+005.3	+005.4	+005.5	+005.4	+005.4	+005.5
49.3750	+005.5	+005.6	+005.7	+005.7	+005.7	+005.7
50.0000	+005.6	+005.6	+005.6	+005.6	+005.6	+005.5
50.6250	+005.6	+005.6	+005.5	+005.5	+005.5	+005.4
51.2500	+005.3	+005.3	+005.3	+005.3	+005.3	+005.3
51.8750	+005.1	+005.2	+005.1	+005.0	+005.0	+005.1
52.5000	+005.1	+005.1	+005.0	+005.0	+005.0	+005.0
53.1250	+005.0	+005.0	+005.0	+005.0	+005.0	+005.1
53.7500	+005.0	+005.0	+005.0	+005.0	+005.0	+005.0
54.3750	+005.0	+005.0	+004.9	+004.9	+004.9	+005.0
55.0000	+005.0	+004.9	+004.8	+004.7	+004.7	+004.7
55.6250	+004.7	+004.7	+004.6	+004.6	+004.6	+004.6
56.2500	+004.5	+004.5	+004.3	+004.1	+004.1	+003.9
56.8750	+003.6	+003.4	+003.1	+002.8	+002.8	+002.8
57.5000	+002.5	+002.3	+002.1	+001.9	+001.9	+001.8
58.1250	+001.6	+001.4	+001.2	+001.1	+001.1	+001.0
58.7500	+000.9	+000.7	+000.7	+000.7	+000.7	+000.7
59.3750	+001.0	+001.1	+001.5	+001.9	+001.9	+012.4

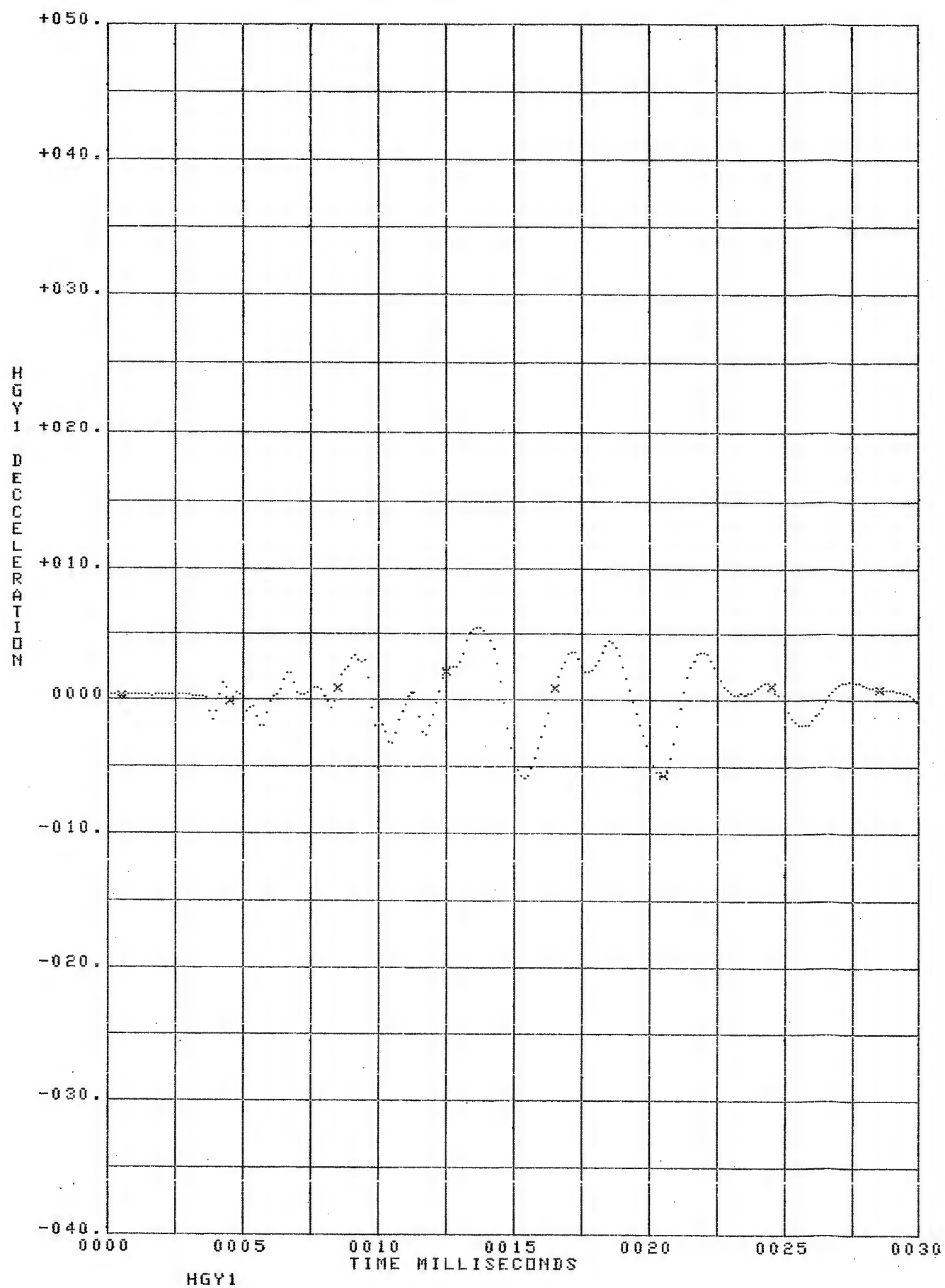
AMAX= +096.0

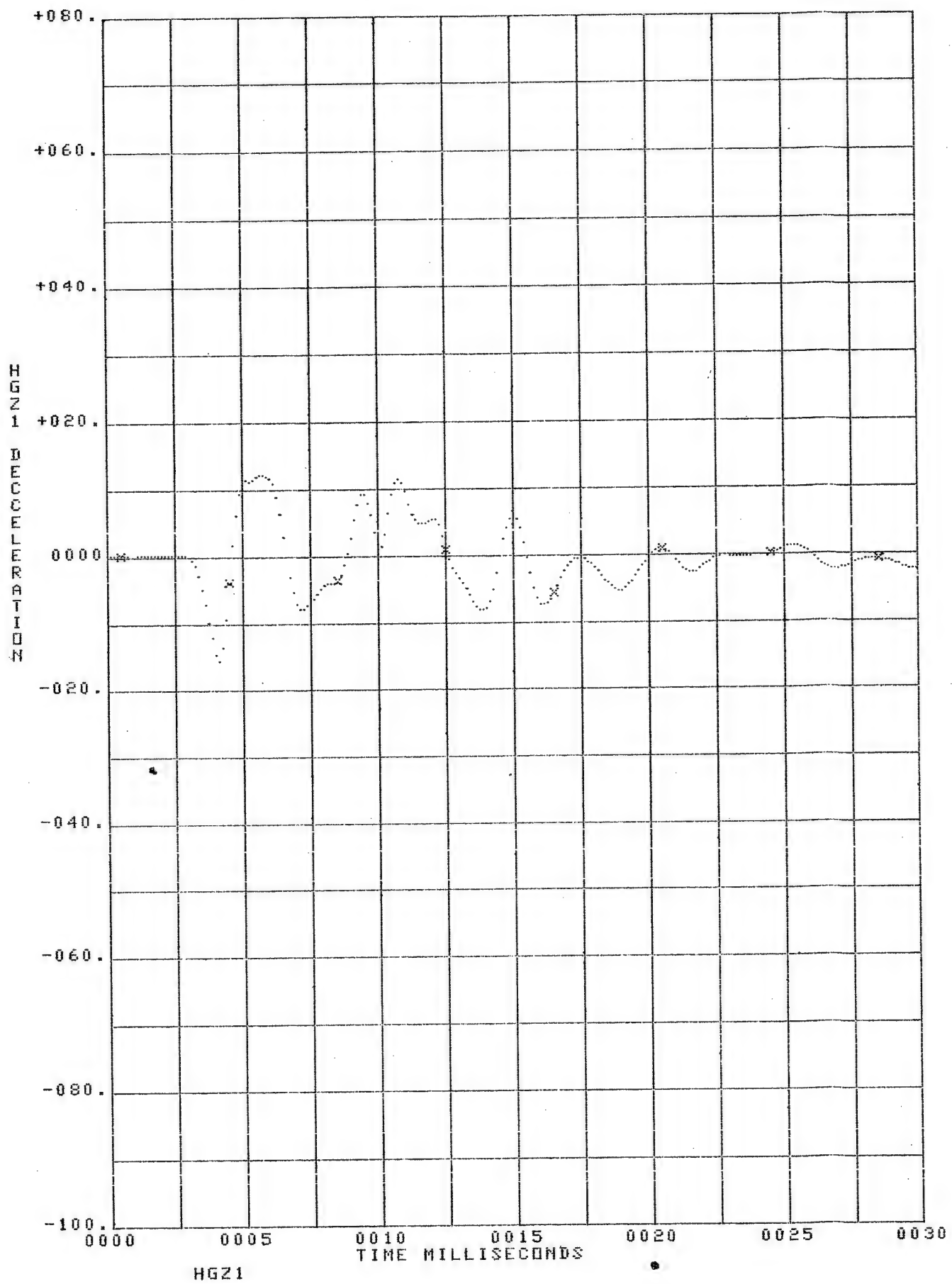
AT T=003.8

Head Impact
Dummy No. 38, Run No. 1

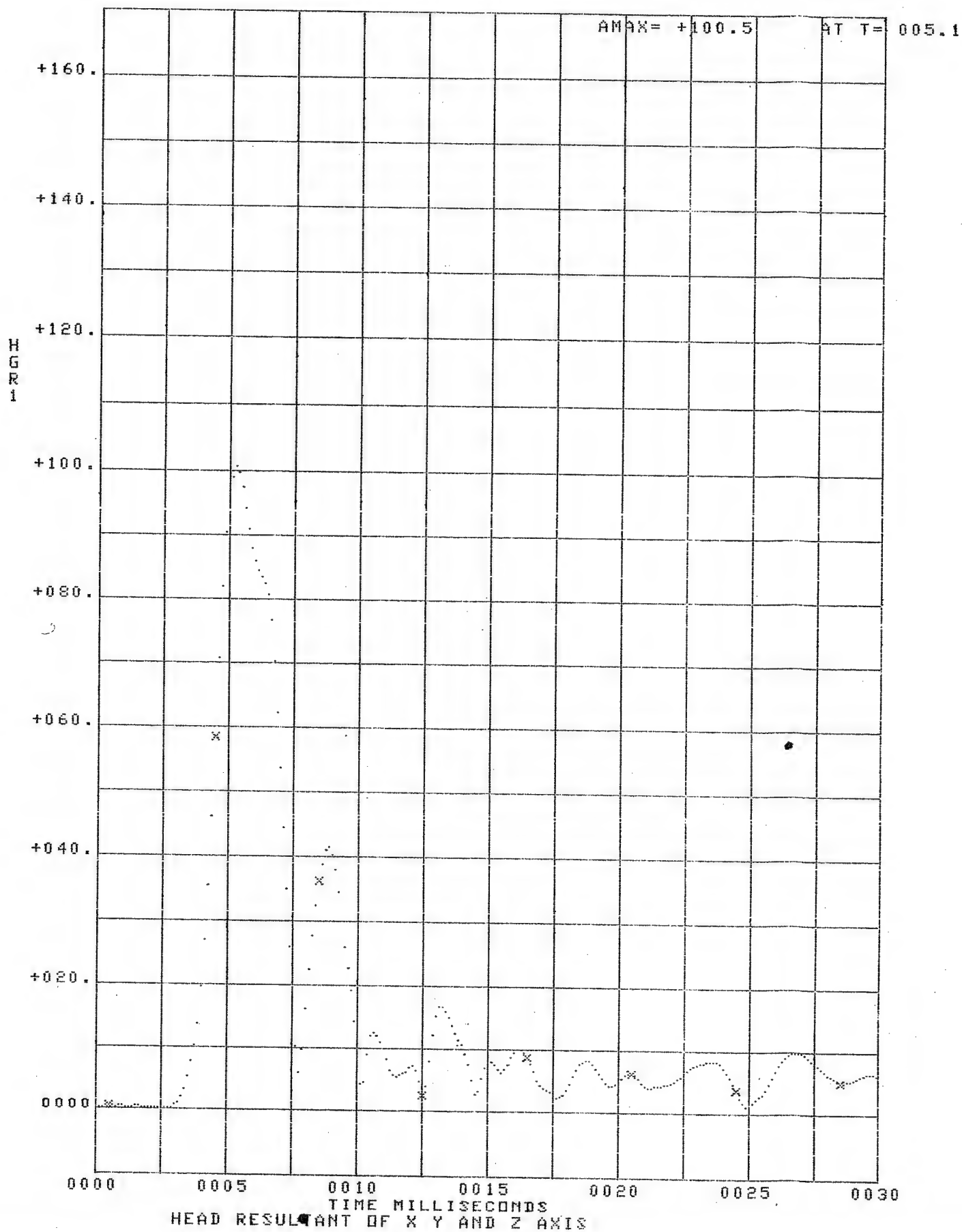


HEAD IMPACT
TEST H101





HEAD IMPACT
TEST H101



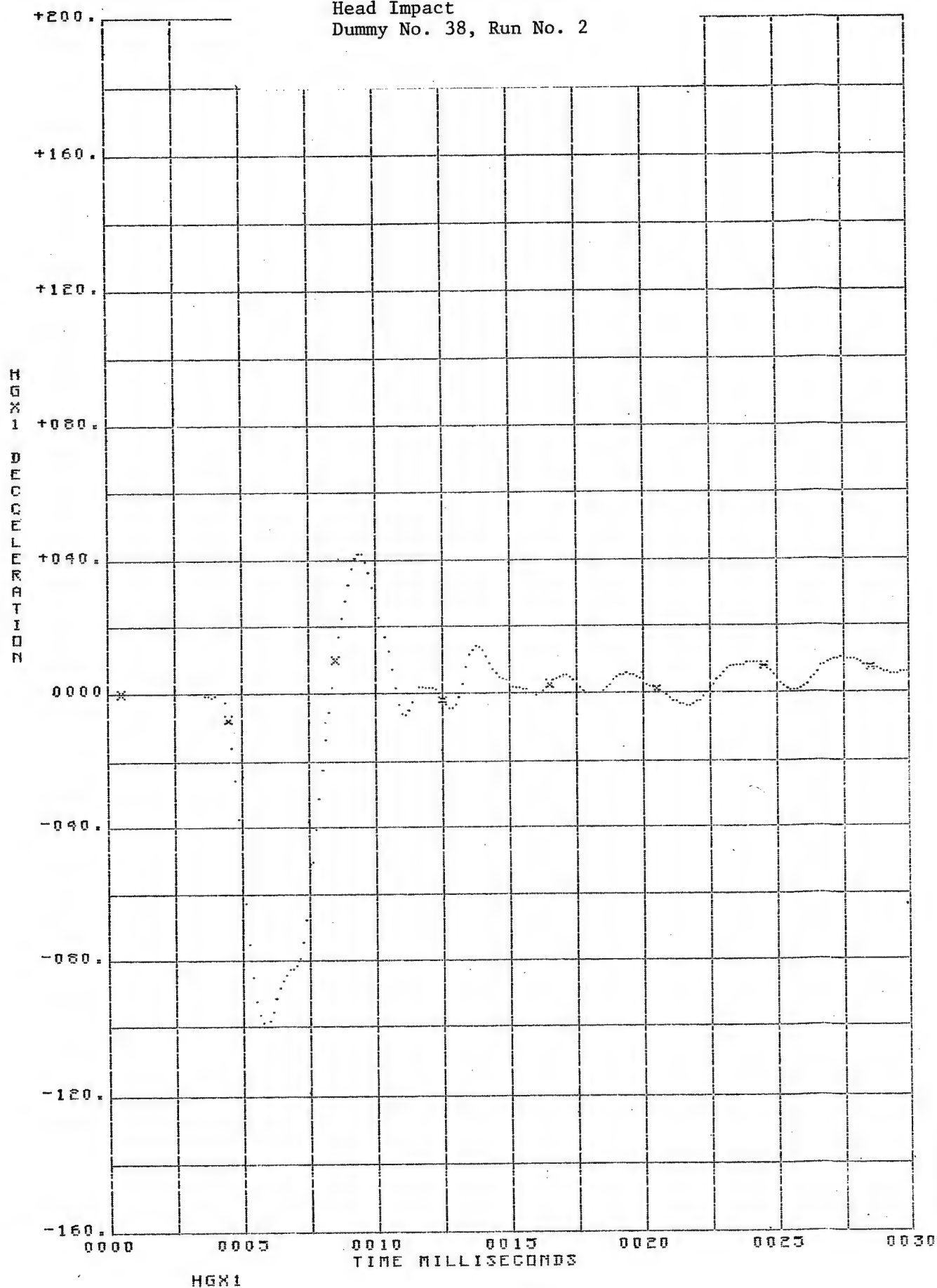
RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H101

TIME					
0.0000	+000.0	+000.0	+000.1	+000.1	+000.1
0.6250	+000.0	+000.1	+000.1	+000.0	+000.0
1.2500	+000.0	+000.1	+000.1	+000.0	+000.0
1.8750	+000.0	+000.0	+000.0	+000.0	+000.0
2.5000	+000.0	+000.0	+000.0	+000.3	+000.8
3.1250	+001.6	+003.0	+004.9	+007.3	+010.0
3.7500	+013.5	+019.3	+026.6	+035.2	+045.8
4.3750	+058.0	+070.5	+081.8	+090.2	+095.8
5.0000	+098.9	+100.5	+099.7	+097.5	+094.0
5.6250	+090.8	+087.8	+085.8	+084.3	+083.3
6.2500	+082.3	+080.5	+076.5	+070.0	+061.9
6.8750	+053.2	+044.1	+034.6	+025.6	+017.2
7.5000	+009.8	+005.7	+009.5	+015.8	+022.0
8.1250	+027.4	+032.0	+035.7	+038.6	+040.5
8.7500	+041.1	+039.9	+037.6	+034.0	+029.7
9.3750	+025.7	+022.3	+018.7	+014.0	+008.6
10.0000	+003.9	+004.2	+008.6	+011.6	+012.2
10.6250	+011.5	+010.6	+009.6	+007.8	+006.2
11.2500	+005.3	+005.1	+005.5	+005.6	+006.0
11.8750	+006.5	+006.9	+006.1	+004.4	+002.1
12.5000	+003.6	+007.7	+011.8	+014.8	+016.2
13.1250	+016.3	+015.7	+014.5	+013.3	+012.2
13.7500	+011.3	+010.4	+009.0	+007.2	+004.8
14.3750	+002.5	+002.8	+004.9	+006.7	+007.6
15.0000	+007.5	+007.1	+006.4	+006.0	+006.3
15.6250	+007.2	+008.4	+009.2	+009.6	+009.6
16.2500	+009.1	+008.4	+007.4	+006.1	+004.7
16.8750	+003.9	+003.5	+003.3	+002.8	+002.2
17.5000	+001.9	+002.1	+002.3	+003.2	+004.2
18.1250	+005.4	+006.5	+007.3	+007.8	+008.0
18.7500	+007.9	+007.5	+006.7	+006.0	+005.1
19.3750	+004.3	+003.9	+003.9	+004.2	+004.7
20.0000	+005.2	+005.6	+006.0	+006.0	+005.7
20.6250	+005.1	+004.5	+003.9	+003.7	+003.7
21.2500	+003.9	+003.9	+003.9	+004.0	+004.1
21.8750	+004.3	+004.7	+005.1	+005.5	+006.1
22.5000	+006.5	+006.9	+007.2	+007.4	+007.6
23.1250	+007.7	+007.9	+008.0	+008.0	+007.9
23.7500	+007.6	+006.9	+006.2	+005.3	+004.3
24.3750	+003.3	+002.3	+001.4	+000.9	+001.0
25.0000	+001.5	+001.9	+002.3	+002.8	+003.5
25.6250	+004.4	+005.4	+006.5	+007.3	+008.2
26.2500	+008.8	+009.1	+009.4	+009.5	+009.4
26.8750	+009.3	+009.1	+008.7	+008.3	+007.9
27.5000	+007.5	+007.0	+006.5	+006.0	+005.6
28.1250	+005.3	+005.0	+004.8	+004.7	+004.8
28.7500	+005.0	+005.2	+005.5	+005.7	+006.0
29.3750	+006.1	+006.2	+006.1	+006.0	+006.0
30.0000	+005.9	+006.0	+006.0	+006.1	+006.2
30.6250	+006.3	+006.5	+006.6	+006.7	+007.0
31.2500	+007.1	+007.2	+007.3	+007.3	+007.2
31.8750	+007.2	+007.2	+007.1	+006.9	+006.7
32.5000	+006.5	+006.3	+006.0	+005.8	+005.7
33.1250	+005.5	+005.4	+005.3	+005.2	+005.2
33.7500	+005.1	+005.1	+005.0	+005.0	+004.9
34.3750	+004.8	+004.7	+004.7	+004.6	+004.6
35.0000	+004.6	+004.6	+004.7	+004.8	+004.9
35.6250	+005.1	+005.3	+005.6	+005.7	+005.8
36.2500	+006.0	+006.1	+006.2	+006.1	+006.0
36.8750	+005.9	+005.7	+005.5	+005.2	+005.0

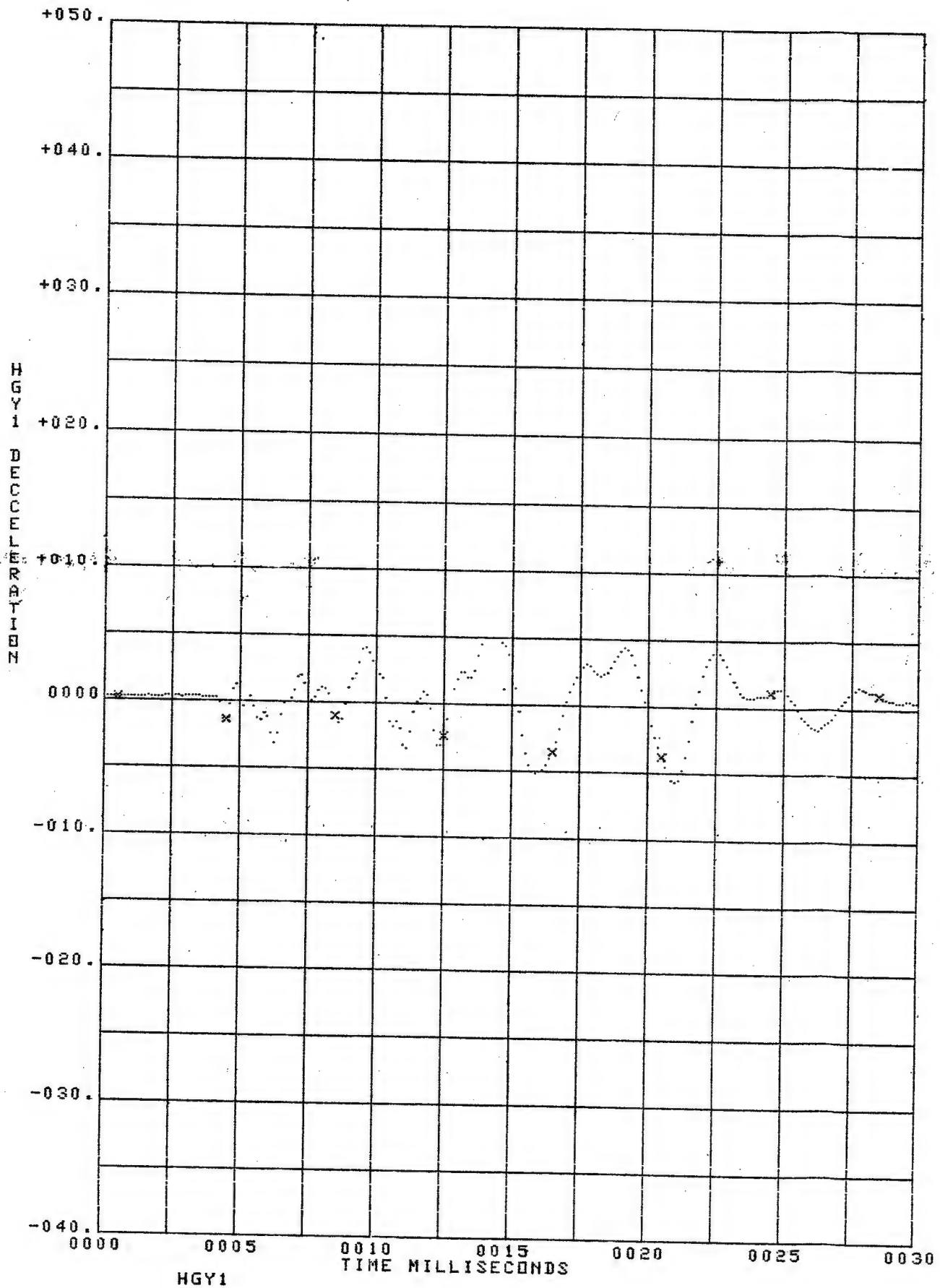
RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H101		
37.5000	+004.8	+004.4	+004.3	+003.9	+003.8	
38.1250	+003.6	+003.4	+003.3	+003.3	+003.3	
38.7500	+003.2	+003.5	+003.7	+004.0	+004.0	
39.3750	+004.2	+004.5	+004.7	+004.3	+005.0	
40.0000	+005.2	+005.4	+005.6	+005.7	+005.9	
40.6250	+006.1	+006.1	+006.1	+006.2	+006.2	
41.2500	+006.2	+006.2	+006.2	+006.2	+006.0	
41.8750	+006.0	+006.0	+005.8	+005.6	+005.6	
42.5000	+005.5	+005.4	+005.4	+005.4	+005.4	
43.1250	+005.4	+005.5	+005.7	+005.8	+005.8	
43.7500	+006.0	+006.2	+006.3	+006.5	+006.6	
44.3750	+006.8	+006.9	+007.0	+007.1	+007.2	
45.0000	+007.2	+007.3	+007.4	+007.4	+007.4	
45.6250	+007.3	+007.3	+007.2	+007.2	+007.1	
46.2500	+007.0	+007.0	+006.9	+006.8	+006.7	
46.8750	+006.6	+006.6	+006.5	+006.3	+006.3	
47.5000	+006.4	+006.2	+006.2	+006.2	+006.2	
48.1250	+006.2	+006.2	+006.3	+006.1	+006.3	
48.7500	+006.3	+006.3	+006.4	+006.3	+006.3	
49.3750	+006.3	+006.4	+006.4	+006.3	+006.3	
50.0000	+006.3	+006.1	+006.1	+006.1	+006.0	
50.6250	+005.8	+005.8	+005.7	+005.6	+005.5	
51.2500	+005.3	+005.3	+005.1	+005.1	+005.1	
51.8750	+004.9	+004.8	+004.8	+004.8	+004.8	
52.5000	+004.8	+004.8	+004.8	+004.9	+004.9	
53.1250	+005.0	+005.0	+005.0	+005.0	+005.0	
53.7500	+005.0	+005.0	+005.0	+005.0	+005.0	
54.3750	+005.0	+005.0	+005.0	+004.9	+004.9	
55.0000	+004.7	+004.6	+004.6	+004.6	+004.6	
55.6250	+004.5	+004.5	+004.3	+004.4	+004.4	
56.2500	+004.4	+004.4	+004.4	+004.4	+004.4	
56.8750	+004.4	+004.4	+004.5	+004.6	+004.6	
57.5000	+004.7	+004.7	+004.8	+004.8	+004.7	
58.1250	+004.8	+004.8	+004.8	+004.8	+004.8	
58.7500	+004.8	+004.7	+004.6	+004.6	+004.5	
59.3750	+004.5	+004.5	+004.4	+004.3	+213.4	

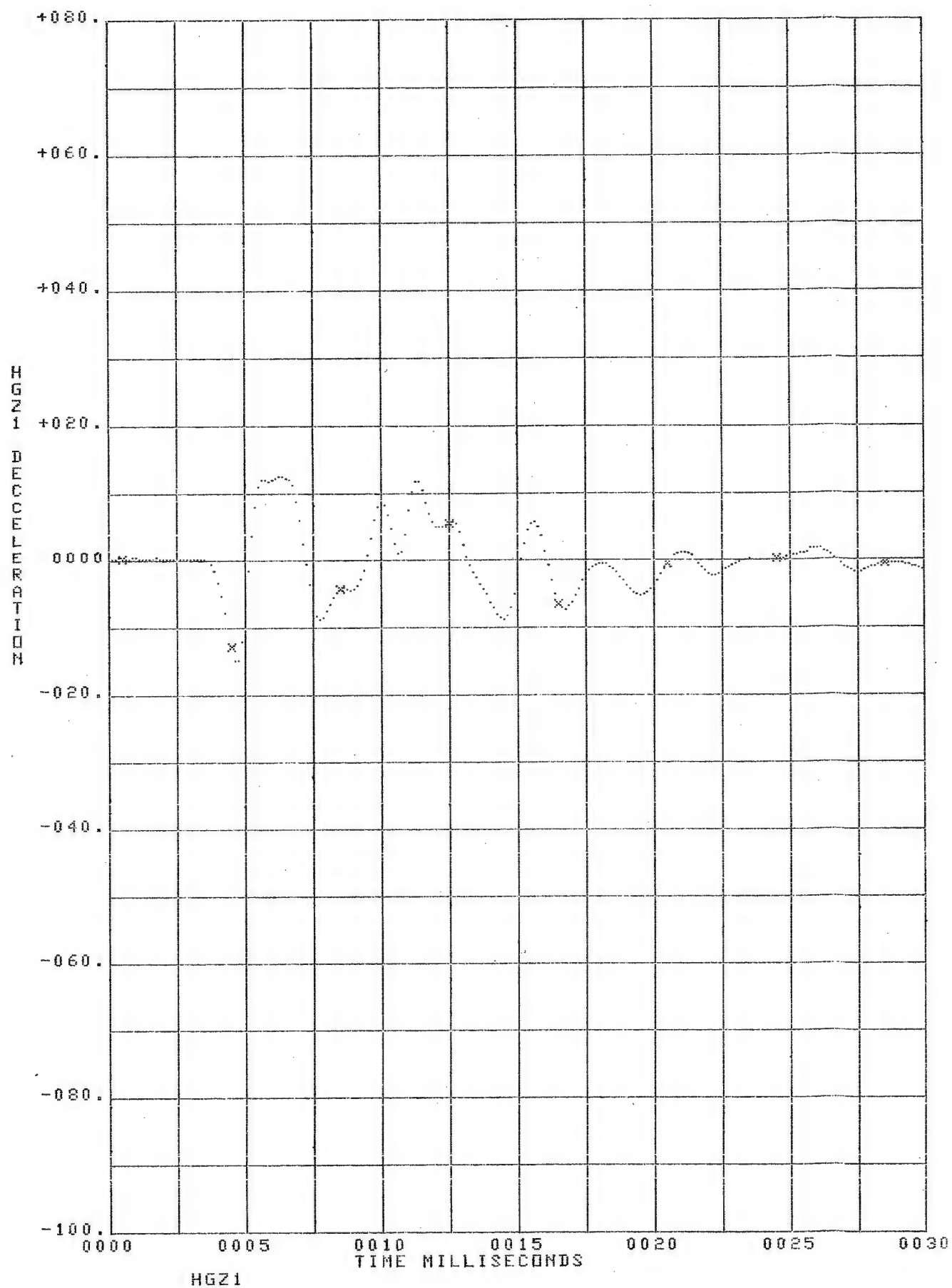
AMAX= +100.5 AT T=005.1

Head Impact
Dummy No. 38, Run No. 2

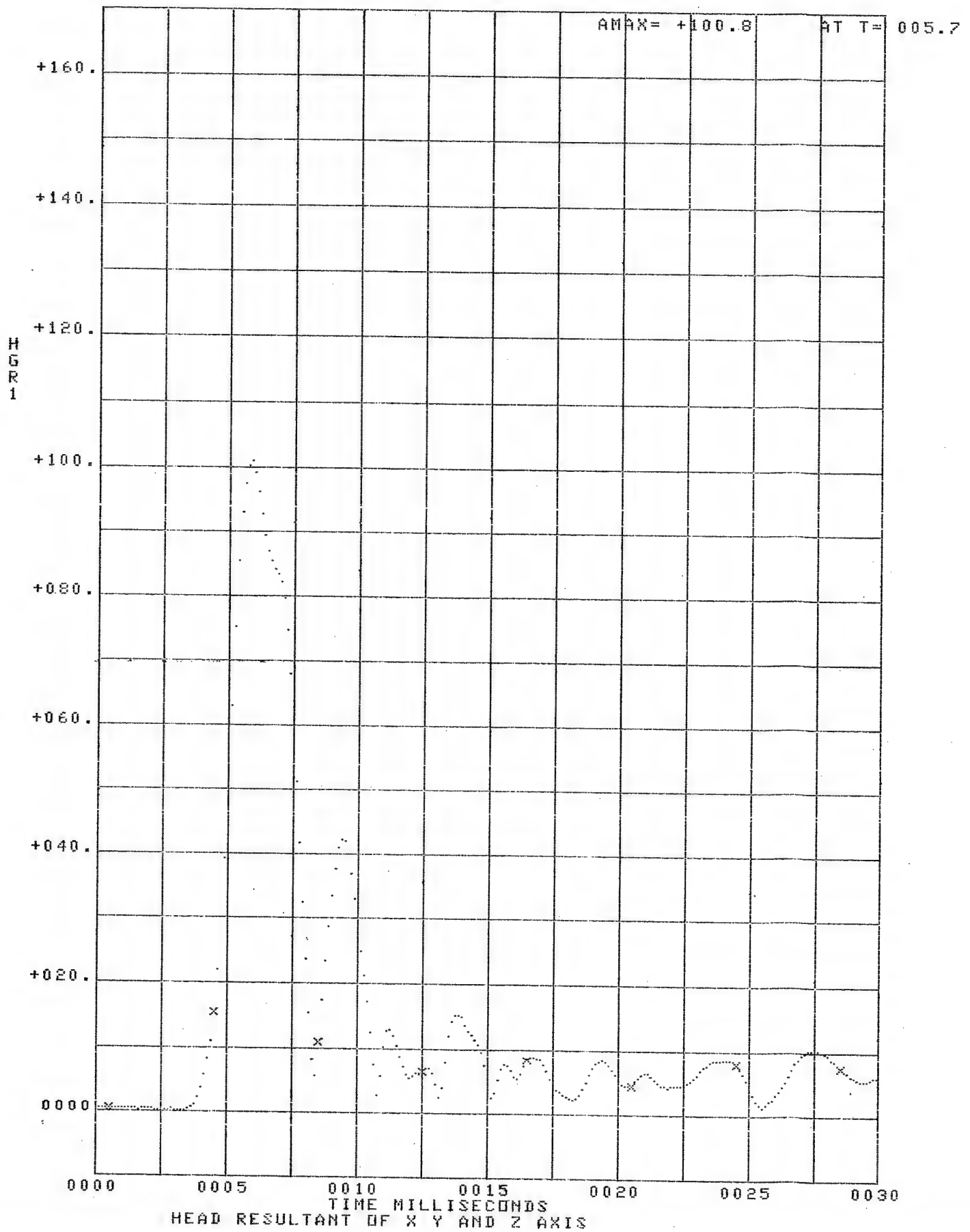


HEAD IMPACT
TEST H102





HEAD IMPACT
TEST H102



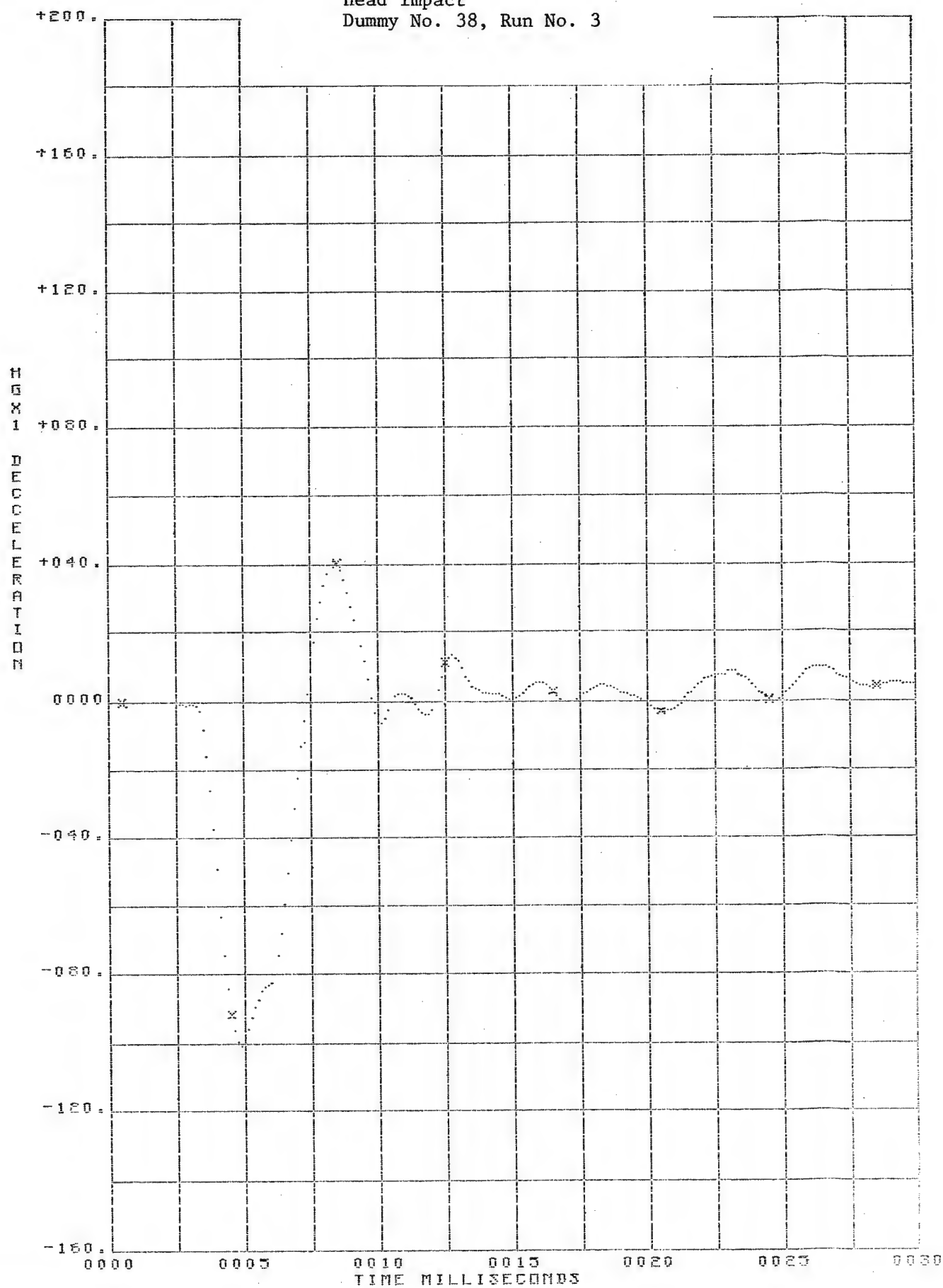
RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H102

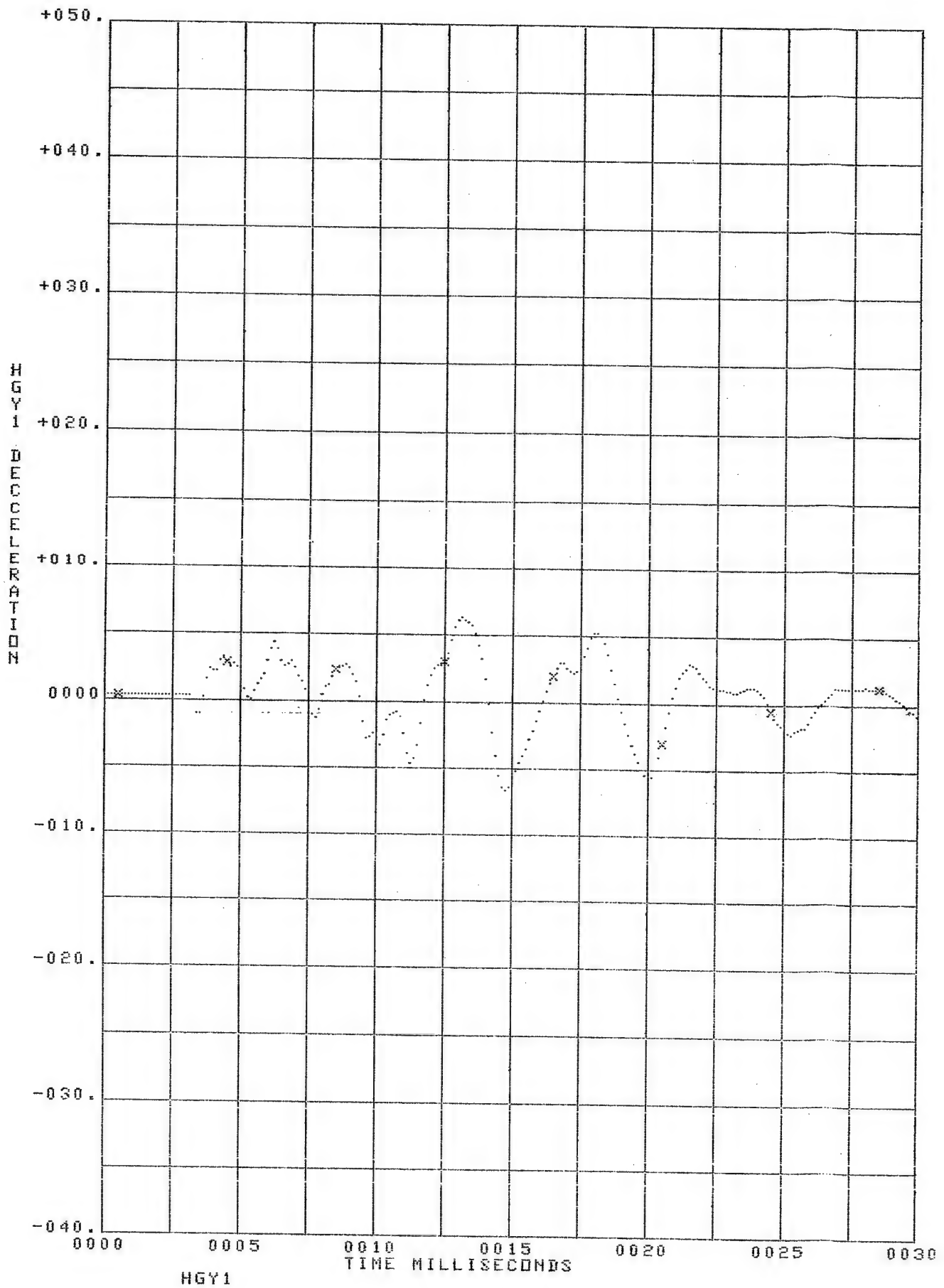
TIME					
0.0000	+000.1	+000.1	+000.1	+000.1	+000.1
0.6250	+000.1	+000.1	+000.1	+000.1	+000.1
1.2500	+000.1	+000.1	+000.0	+000.1	+000.1
1.8750	+000.1	+000.1	+000.0	+000.0	+000.0
2.5000	+000.0	+000.0	+000.1	+000.0	+000.0
3.1250	+000.0	+000.0	+000.1	+000.3	+000.9
3.7500	+001.9	+003.5	+005.5	+007.9	+010.6
4.3750	+015.1	+021.7	+029.6	+038.9	+050.1
5.0000	+062.6	+075.1	+085.3	+092.7	+097.2
5.6250	+100.0	+100.8	+099.1	+096.1	+092.6
6.2500	+089.4	+086.9	+085.2	+084.0	+083.2
6.8750	+082.0	+079.4	+074.5	+067.8	+059.8
7.5000	+050.8	+041.4	+032.0	+023.3	+015.1
8.1250	+008.0	+005.3	+010.5	+017.2	+023.1
8.7500	+028.2	+033.0	+037.4	+040.5	+041.9
9.3750	+041.5	+039.7	+036.5	+032.7	+028.6
10.0000	+024.5	+020.8	+016.9	+012.2	+007.0
10.6250	+002.4	+005.3	+009.8	+012.3	+012.6
11.2500	+011.5	+010.2	+008.6	+007.0	+005.6
11.8750	+005.1	+005.4	+005.9	+006.0	+006.2
12.5000	+006.5	+006.7	+006.0	+004.2	+002.1
13.1250	+003.6	+007.7	+011.5	+013.9	+014.9
13.7500	+015.0	+014.5	+013.4	+012.5	+011.9
14.3750	+011.2	+010.4	+009.1	+007.1	+004.5
15.0000	+002.1	+002.8	+005.0	+006.6	+007.3
15.6250	+007.2	+006.4	+005.5	+005.2	+005.9
16.2500	+007.0	+008.1	+008.7	+008.8	+008.5
16.8750	+008.1	+007.4	+006.4	+005.2	+004.2
17.5000	+003.4	+003.1	+002.8	+002.4	+002.1
18.1250	+002.0	+002.2	+002.7	+003.6	+004.6
18.7500	+005.9	+006.9	+007.6	+008.0	+008.2
19.3750	+008.0	+007.4	+006.7	+006.0	+005.0
20.0000	+004.4	+004.0	+004.0	+004.3	+004.8
20.6250	+005.3	+005.8	+006.1	+006.1	+005.7
21.2500	+005.2	+004.6	+004.2	+004.0	+004.0
21.8750	+004.1	+004.1	+004.1	+004.2	+004.3
22.5000	+004.7	+005.0	+005.4	+005.9	+006.6
23.1250	+007.1	+007.5	+007.9	+008.1	+008.2
23.7500	+008.3	+008.4	+008.5	+008.4	+008.1
24.3750	+007.6	+006.9	+006.1	+005.1	+004.1
25.0000	+003.0	+002.0	+001.3	+001.0	+001.4
25.6250	+001.9	+002.3	+002.8	+003.4	+004.1
26.2500	+005.0	+005.8	+006.9	+007.9	+008.6
26.8750	+009.1	+009.4	+009.8	+010.0	+010.0
27.5000	+009.9	+009.7	+009.5	+009.1	+008.8
28.1250	+008.3	+007.8	+007.2	+006.7	+006.4
28.7500	+005.9	+005.6	+005.3	+005.2	+005.2
29.3750	+005.2	+005.4	+005.6	+005.8	+005.8
30.0000	+006.1	+006.0	+005.9	+005.8	+005.7
30.6250	+005.6	+005.6	+005.7	+005.8	+006.0
31.2500	+006.3	+006.5	+006.6	+006.7	+007.0
31.8750	+007.2	+007.3	+007.5	+007.5	+007.4
32.5000	+007.4	+007.4	+007.2	+007.1	+006.8
33.1250	+006.7	+006.5	+006.2	+005.9	+005.8
33.7500	+005.5	+005.4	+005.1	+005.0	+004.9
34.3750	+004.8	+004.7	+004.6	+004.6	+004.6
35.0000	+004.6	+004.6	+004.6	+004.6	+004.5
35.6250	+004.6	+004.7	+004.8	+004.9	+005.1
36.2500	+005.3	+005.5	+005.6	+006.0	+006.2
36.8750	+006.2	+006.2	+006.2	+006.2	+006.1

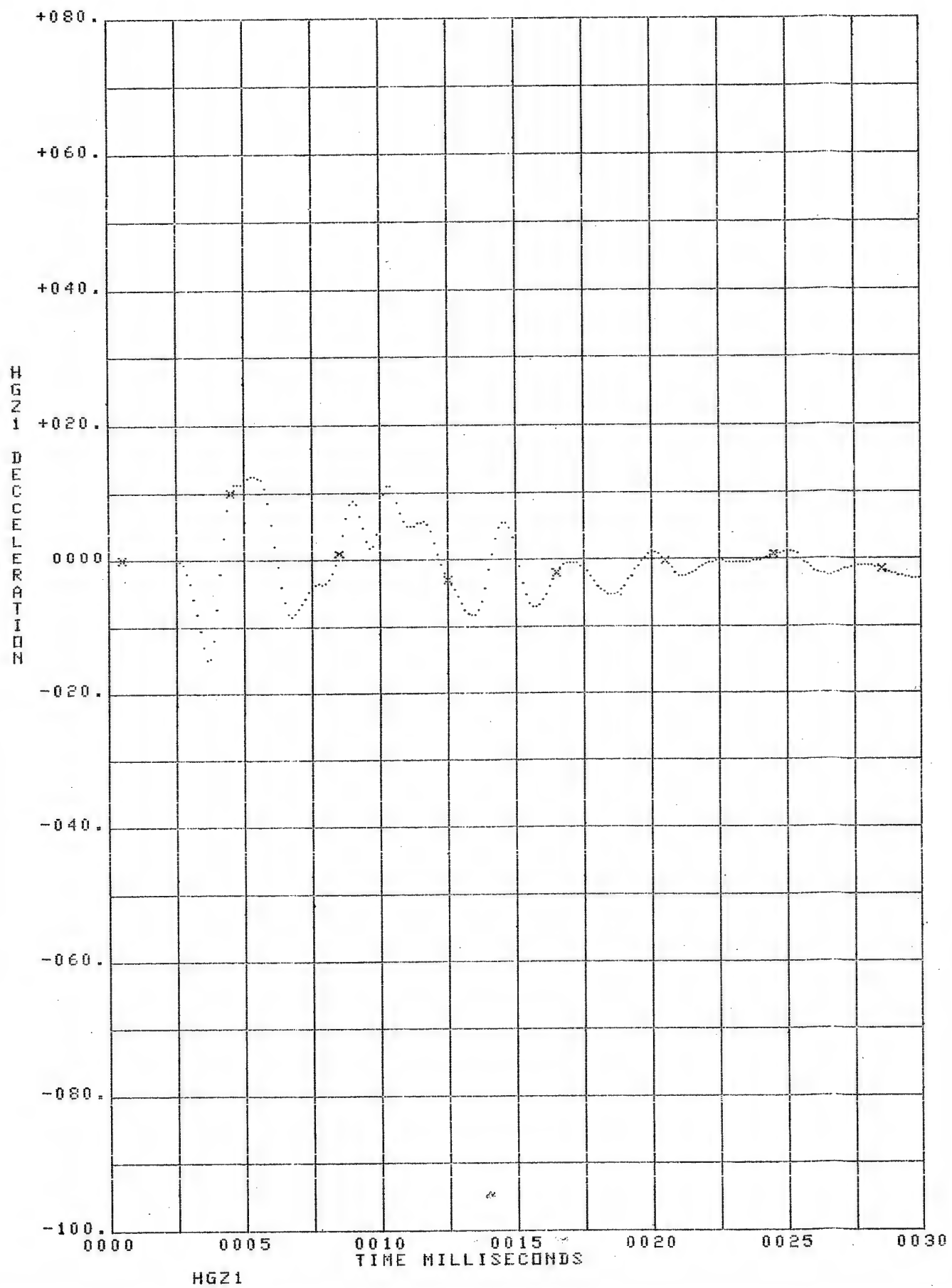
ESULTANT (HGR1) DF	HGX1	HGY1	HGZ1	H102	
37.5000	+006.0	+005.7	+005.5	+005.2	+004.9
38.1250	+004.5	+004.3	+003.9	+003.7	+003.6
38.7500	+003.3	+003.2	+003.2	+003.2	+003.3
39.3750	+003.5	+003.6	+003.8	+004.0	+004.3
40.0000	+004.6	+004.8	+005.0	+005.2	+005.4
40.6250	+005.6	+005.6	+005.8	+005.8	+006.0
41.2500	+006.0	+006.1	+006.1	+006.2	+006.1
41.8750	+006.1	+006.1	+006.1	+006.0	+005.8
42.5000	+006.0	+006.0	+005.8	+005.8	+005.7
43.1250	+005.5	+005.5	+005.5	+005.5	+005.4
43.7500	+005.4	+005.5	+005.5	+005.6	+005.7
44.3750	+006.0	+006.0	+006.1	+006.3	+006.3
45.0000	+006.5	+006.7	+006.8	+007.0	+007.0
45.6250	+007.1	+007.2	+007.2	+007.2	+007.2
46.2500	+007.2	+007.1	+007.0	+007.0	+007.0
46.8750	+006.9	+006.8	+006.7	+006.6	+006.4
47.5000	+006.4	+006.3	+006.1	+006.1	+006.0
48.1250	+006.0	+006.0	+005.9	+005.9	+005.9
48.7500	+005.9	+005.9	+006.1	+006.1	+006.2
49.3750	+006.2	+006.4	+006.4	+006.5	+006.5
50.0000	+006.5	+006.5	+006.5	+006.5	+006.4
50.6250	+006.4	+006.2	+006.2	+006.0	+006.0
51.2500	+005.7	+005.7	+005.6	+005.5	+005.4
51.8750	+005.2	+005.2	+005.1	+005.1	+005.0
52.5000	+005.0	+005.0	+004.9	+004.9	+004.9
53.1250	+004.8	+004.9	+004.9	+005.0	+005.0
53.7500	+005.0	+005.1	+005.0	+005.1	+005.1
54.3750	+005.1	+005.1	+005.1	+005.1	+005.1
55.0000	+005.1	+005.0	+004.9	+004.9	+004.9
55.6250	+004.8	+004.8	+004.7	+004.7	+004.6
56.2500	+004.5	+004.5	+004.5	+004.3	+004.3
56.8750	+004.3	+004.3	+004.3	+004.3	+004.3
57.5000	+004.5	+004.5	+004.5	+004.5	+004.5
58.1250	+004.6	+004.6	+004.7	+004.7	+004.7
58.7500	+004.8	+004.8	+004.9	+004.8	+004.8
59.3750	+004.8	+004.9	+004.8	+004.8	+313.4

AMAX= +100.8 AT T=005.7

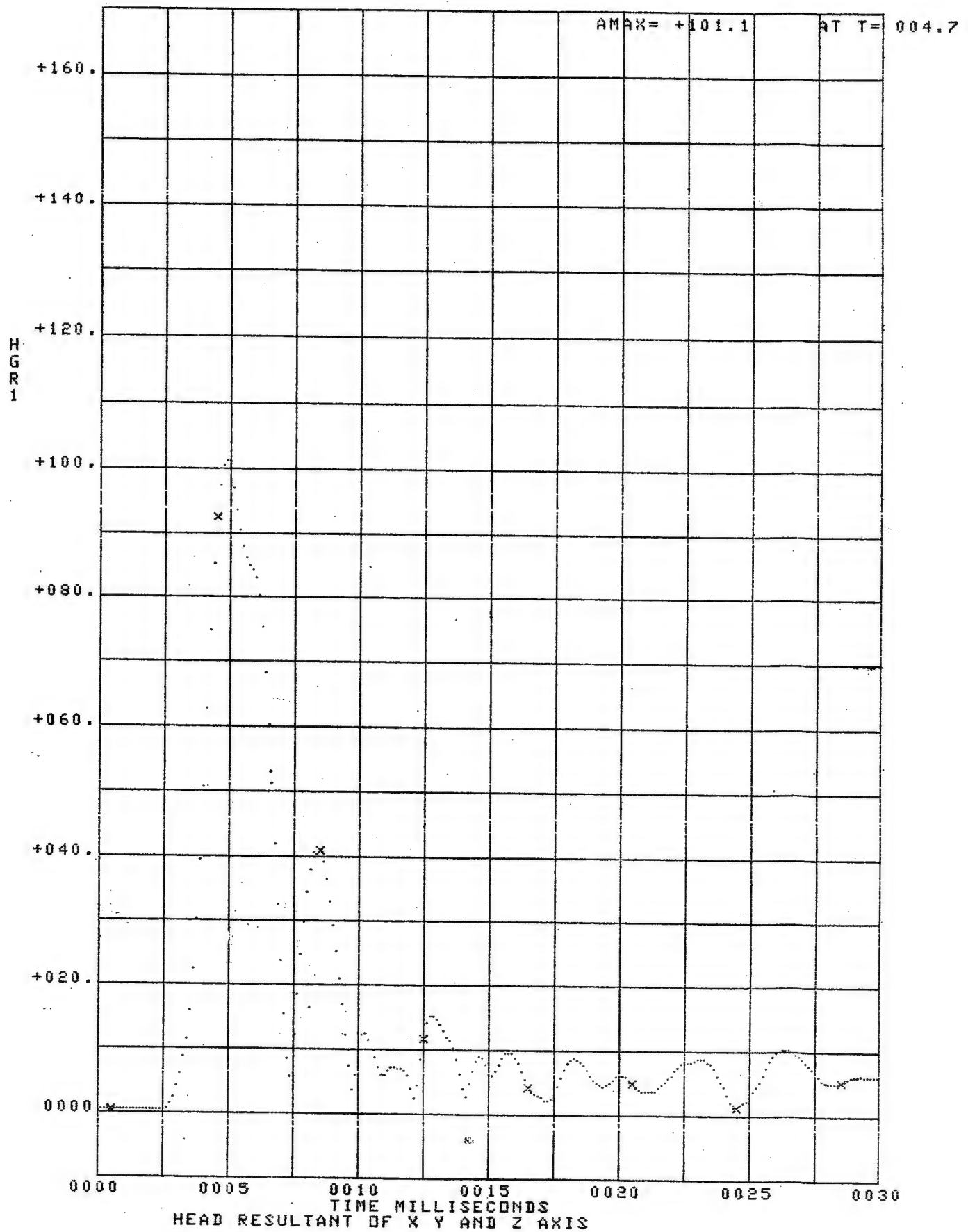
Head Impact
Dummy No. 38, Run No. 3







HEAD IMPACT
TEST H103



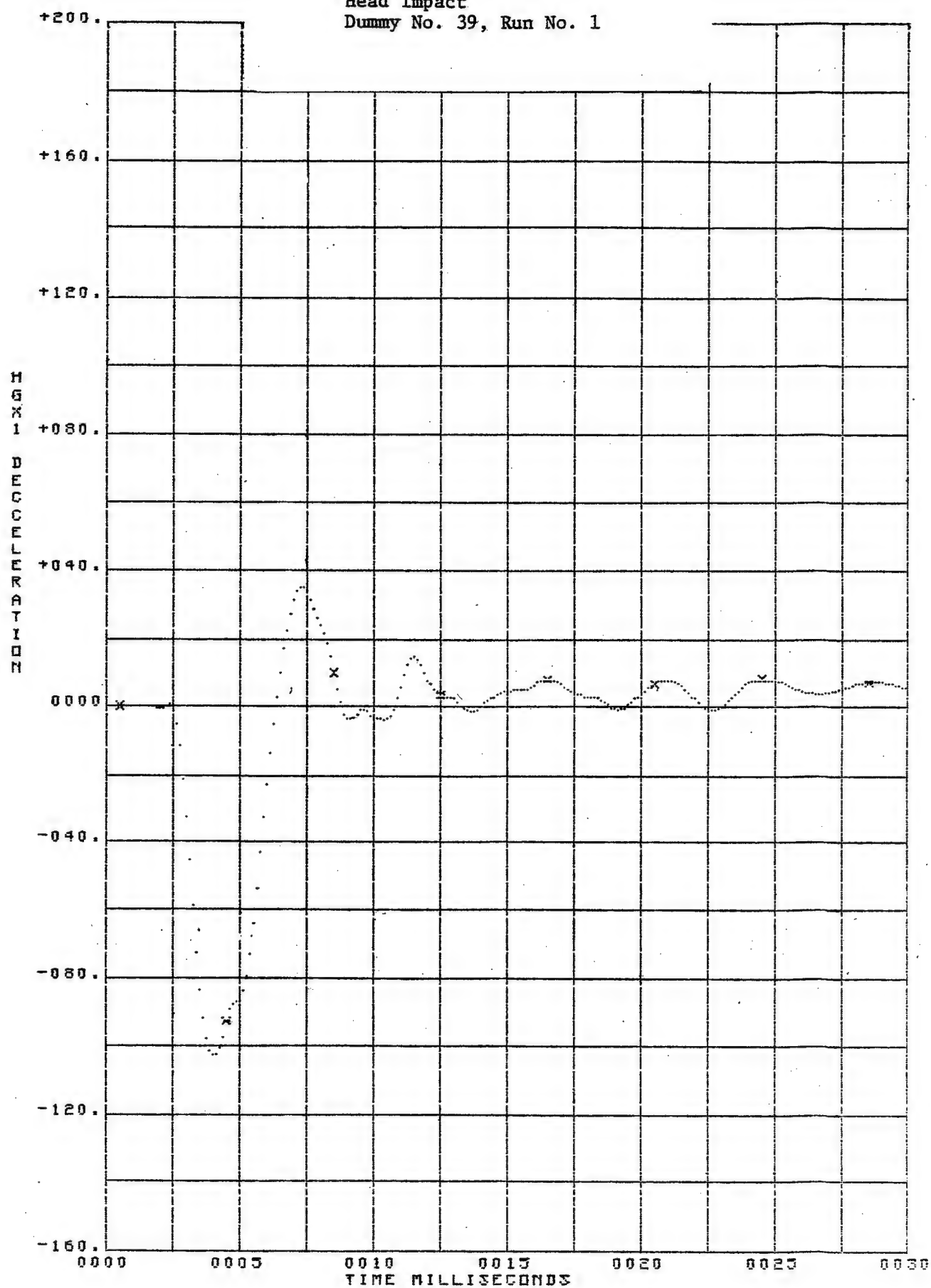
RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H103

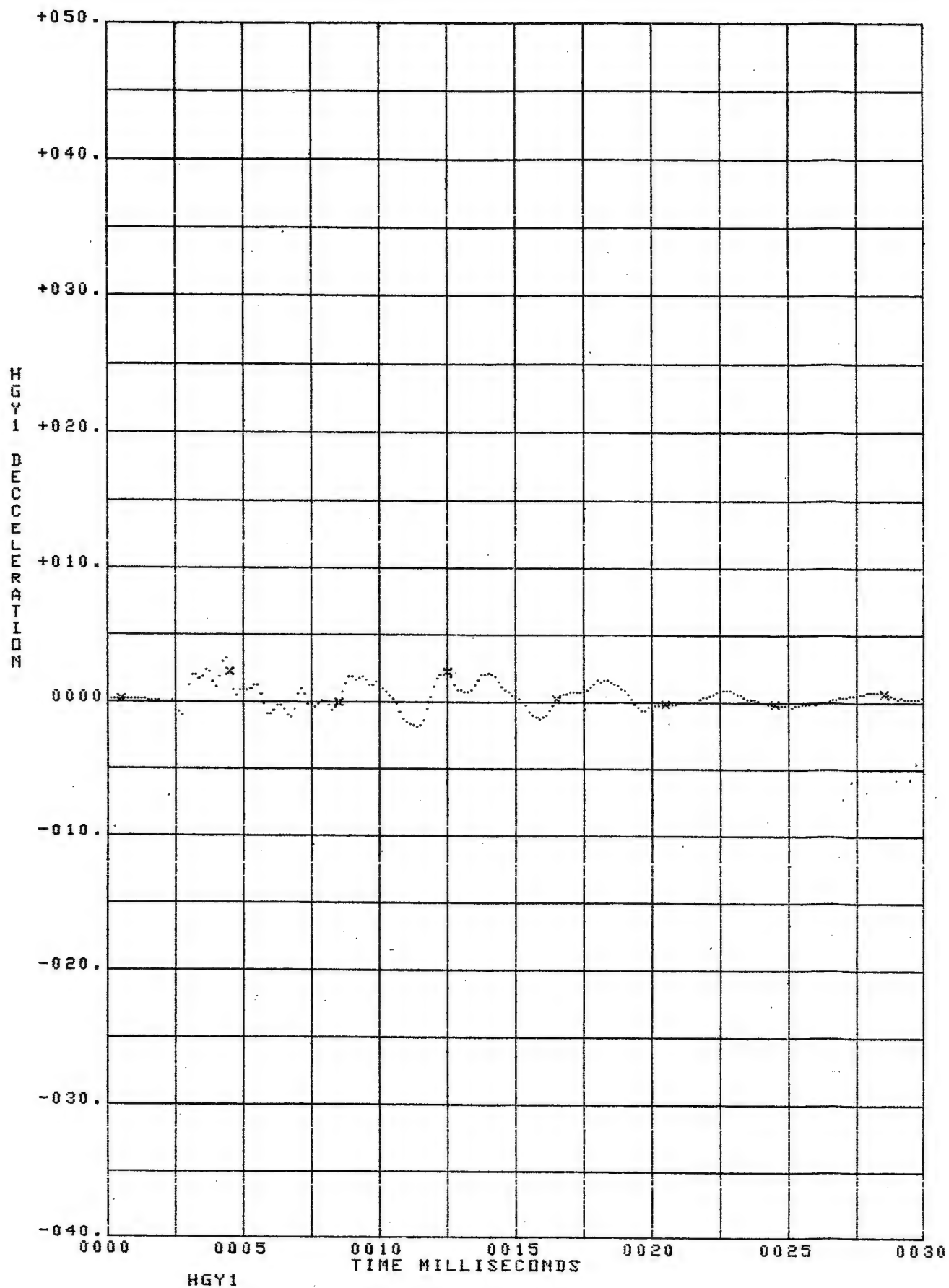
TIME					
0.0000	+000.2	+000.2	+000.2	+000.2	+000.2
0.6250	+000.2	+000.2	+000.2	+000.2	+000.2
1.2500	+000.2	+000.2	+000.2	+000.2	+000.2
1.8750	+000.2	+000.2	+000.2	+000.2	+000.3
2.5000	+000.5	+001.2	+002.3	+003.9	+005.9
3.1250	+008.3	+011.2	+015.6	+022.0	+029.8
3.7500	+039.0	+050.2	+062.3	+074.6	+084.9
4.3750	+092.3	+097.4	+100.4	+101.1	+099.7
5.0000	+096.9	+093.5	+090.3	+087.7	+086.0
5.6250	+084.9	+084.1	+082.8	+079.9	+074.9
6.2500	+068.0	+060.0	+051.1	+041.5	+032.1
6.8750	+023.3	+015.2	+008.1	+005.5	+011.0
7.5000	+018.1	+024.3	+029.5	+033.9	+037.6
8.1250	+040.3	+041.1	+040.5	+038.9	+036.1
8.7500	+032.5	+028.9	+024.9	+020.7	+016.7
9.3750	+012.0	+007.2	+003.5	+005.7	+009.7
10.0000	+012.0	+012.2	+011.2	+009.7	+008.3
10.6250	+006.9	+005.9	+005.7	+006.5	+007.0
11.2500	+006.8	+006.6	+006.6	+006.5	+005.6
11.8750	+003.7	+002.1	+004.2	+008.1	+011.5
12.5000	+013.9	+014.8	+014.8	+014.3	+013.6
13.1250	+012.6	+011.8	+011.1	+010.0	+008.3
13.7500	+006.1	+003.6	+002.4	+004.3	+006.5
14.3750	+008.0	+008.6	+008.3	+007.3	+006.1
15.0000	+005.7	+006.3	+007.5	+008.5	+009.0
15.6250	+009.3	+009.0	+008.5	+007.8	+006.5
16.2500	+005.2	+003.9	+003.1	+002.8	+002.7
16.8750	+002.3	+002.1	+002.0	+002.3	+003.0
17.5000	+004.1	+005.4	+006.6	+007.6	+008.2
18.1250	+008.3	+008.3	+007.9	+007.3	+006.7
18.7500	+005.9	+005.1	+004.6	+004.3	+004.2
19.3750	+004.4	+004.7	+005.3	+005.6	+005.9
20.0000	+005.9	+005.7	+005.0	+004.5	+004.0
20.6250	+003.6	+003.5	+003.5	+003.5	+003.4
21.2500	+003.5	+004.0	+004.4	+005.0	+005.4
21.8750	+006.0	+006.6	+007.1	+007.5	+007.7
22.5000	+007.8	+007.9	+008.1	+008.3	+008.3
23.1250	+008.3	+008.0	+007.5	+006.9	+006.0
23.7500	+005.0	+004.1	+002.8	+001.8	+001.0
24.3750	+001.0	+001.4	+001.8	+002.1	+002.5
25.0000	+003.4	+004.2	+005.0	+006.1	+007.0
25.6250	+008.1	+008.9	+009.3	+009.6	+009.8
26.2500	+010.0	+009.8	+009.6	+009.2	+008.8
26.8750	+008.4	+007.9	+007.4	+006.9	+006.4
27.5000	+005.9	+005.3	+004.9	+004.7	+004.6
28.1250	+004.5	+004.6	+004.9	+005.2	+005.5
28.7500	+005.7	+005.9	+006.0	+006.1	+006.0
29.3750	+006.0	+006.0	+006.0	+005.9	+005.9
30.0000	+006.1	+006.2	+006.3	+006.5	+006.6
30.6250	+006.7	+006.9	+006.8	+007.0	+007.2
31.2500	+007.4	+007.3	+007.3	+007.1	+007.1
31.8750	+006.9	+006.8	+006.5	+006.5	+006.3
32.5000	+006.1	+005.8	+005.7	+005.5	+005.5
33.1250	+005.4	+005.3	+005.4	+005.2	+005.1
33.7500	+005.0	+004.9	+004.9	+004.9	+004.9
34.3750	+004.8	+004.7	+004.7	+004.7	+004.8
35.0000	+004.9	+005.0	+005.2	+005.4	+005.6
35.6250	+005.8	+005.8	+006.1	+006.1	+006.1
36.2500	+006.2	+006.2	+006.0	+005.7	+005.6
36.8750	+005.3	+005.0	+004.6	+004.3	+004.0

RESULTANT (HGR1) DF	HGX1	HGY1	HGZ1	H103		
37.5000	+003.7	+003.5	+003.2	+002.9	+002.9	
38.1250	+002.7	+002.8	+002.9	+003.1	+003.2	
38.7500	+003.6	+003.9	+004.1	+004.5	+004.9	
39.3750	+005.2	+005.5	+005.9	+006.1	+006.4	
40.0000	+006.6	+006.7	+006.9	+006.9	+006.9	
40.6250	+006.8	+006.7	+006.5	+006.4	+006.3	
41.2500	+006.0	+006.0	+005.8	+005.7	+005.5	
41.8750	+005.4	+005.3	+005.3	+005.3	+005.4	
42.5000	+005.4	+005.5	+005.6	+005.8	+005.8	
43.1250	+006.0	+006.3	+006.3	+006.5	+006.7	
43.7500	+006.9	+006.9	+007.0	+007.1	+007.1	
44.3750	+007.1	+007.1	+007.1	+007.2	+007.1	
45.0000	+007.1	+007.0	+007.0	+006.9	+006.9	
45.6250	+006.9	+006.9	+006.8	+006.7	+006.7	
46.2500	+006.7	+006.7	+006.5	+006.5	+006.5	
46.8750	+006.4	+006.6	+006.5	+006.3	+006.3	
47.5000	+006.3	+006.3	+006.3	+006.3	+006.4	
48.1250	+006.4	+006.4	+006.4	+006.3	+006.3	
48.7500	+006.6	+006.5	+006.6	+006.5	+006.5	
49.3750	+006.5	+006.5	+006.5	+006.3	+006.3	
50.0000	+006.2	+006.1	+006.0	+005.9	+005.8	
50.6250	+005.7	+005.6	+005.4	+005.4	+005.2	
51.2500	+005.2	+005.0	+005.0	+004.9	+004.9	
51.8750	+004.9	+004.9	+005.0	+005.0	+005.0	
52.5000	+005.0	+005.2	+005.2	+005.3	+005.4	
53.1250	+005.4	+005.4	+005.4	+005.4	+005.4	
53.7500	+005.4	+005.4	+005.3	+005.3	+005.2	
54.3750	+005.0	+005.0	+004.9	+004.8	+004.8	
55.0000	+004.6	+004.6	+004.5	+004.5	+004.6	
55.6250	+004.5	+004.5	+004.5	+004.5	+004.5	
56.2500	+004.5	+004.5	+004.6	+004.6	+004.6	
56.8750	+004.7	+004.8	+004.8	+004.9	+004.8	
57.5000	+004.9	+004.9	+004.9	+004.8	+004.8	
58.1250	+004.8	+004.8	+004.7	+004.6	+004.6	
58.7500	+004.6	+004.5	+004.4	+004.3	+004.3	
59.3750	+004.2	+004.3	+004.1	+004.1	+313.4	

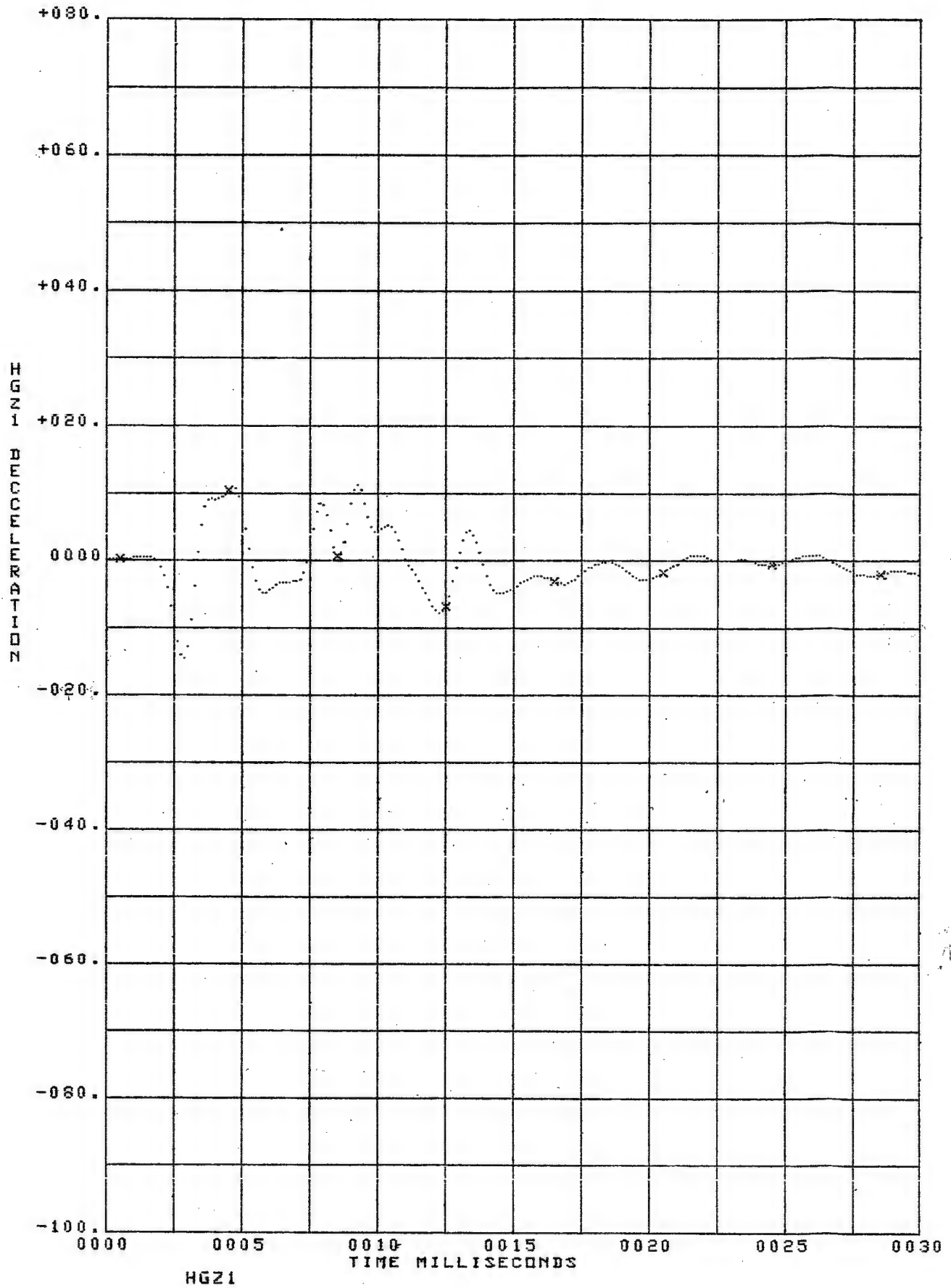
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Head Impact
Dummy No. 39, Run No. 1

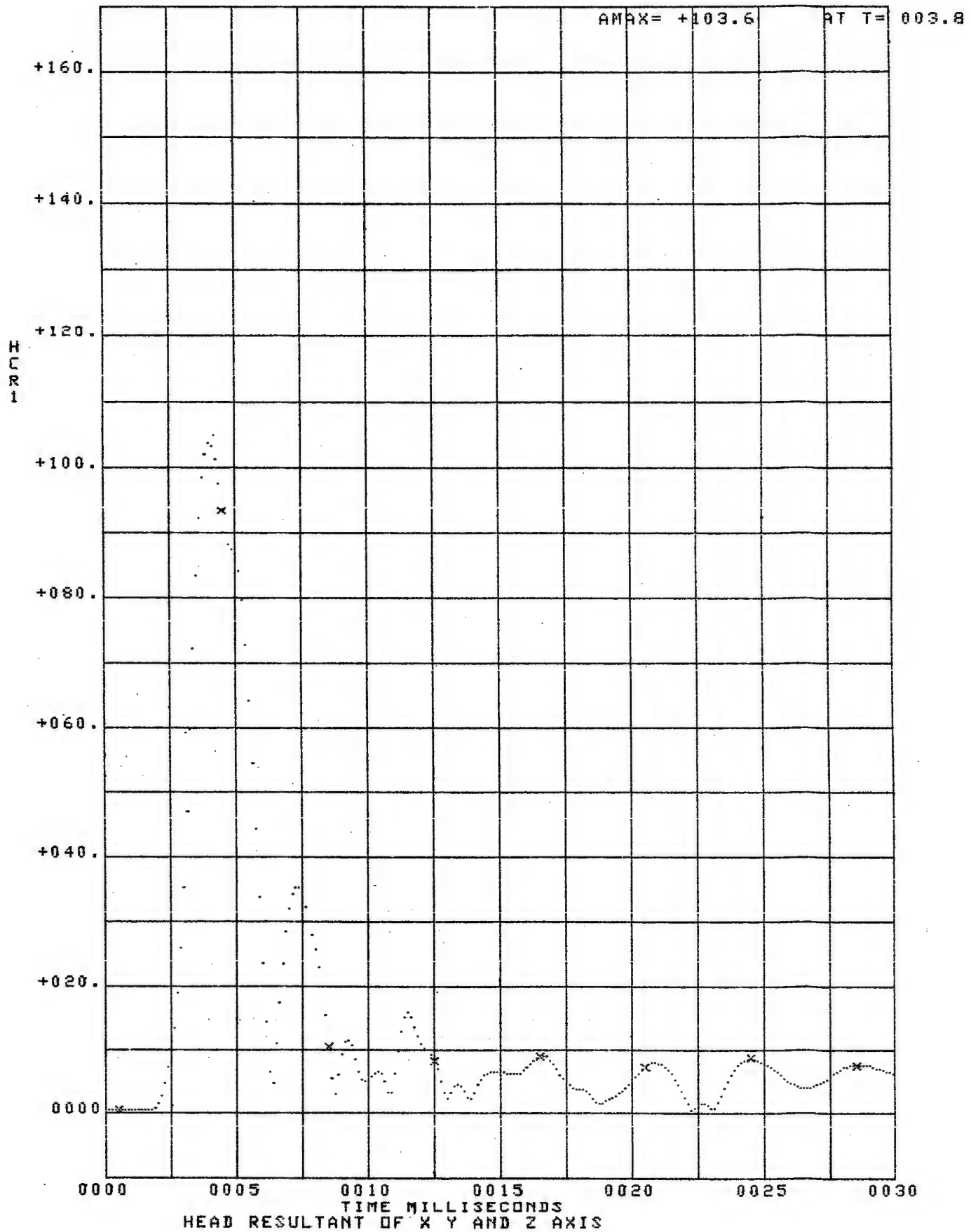




HEAD IMPACT
TEST H101



HEAD IMPACT
TEST H101



RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H101

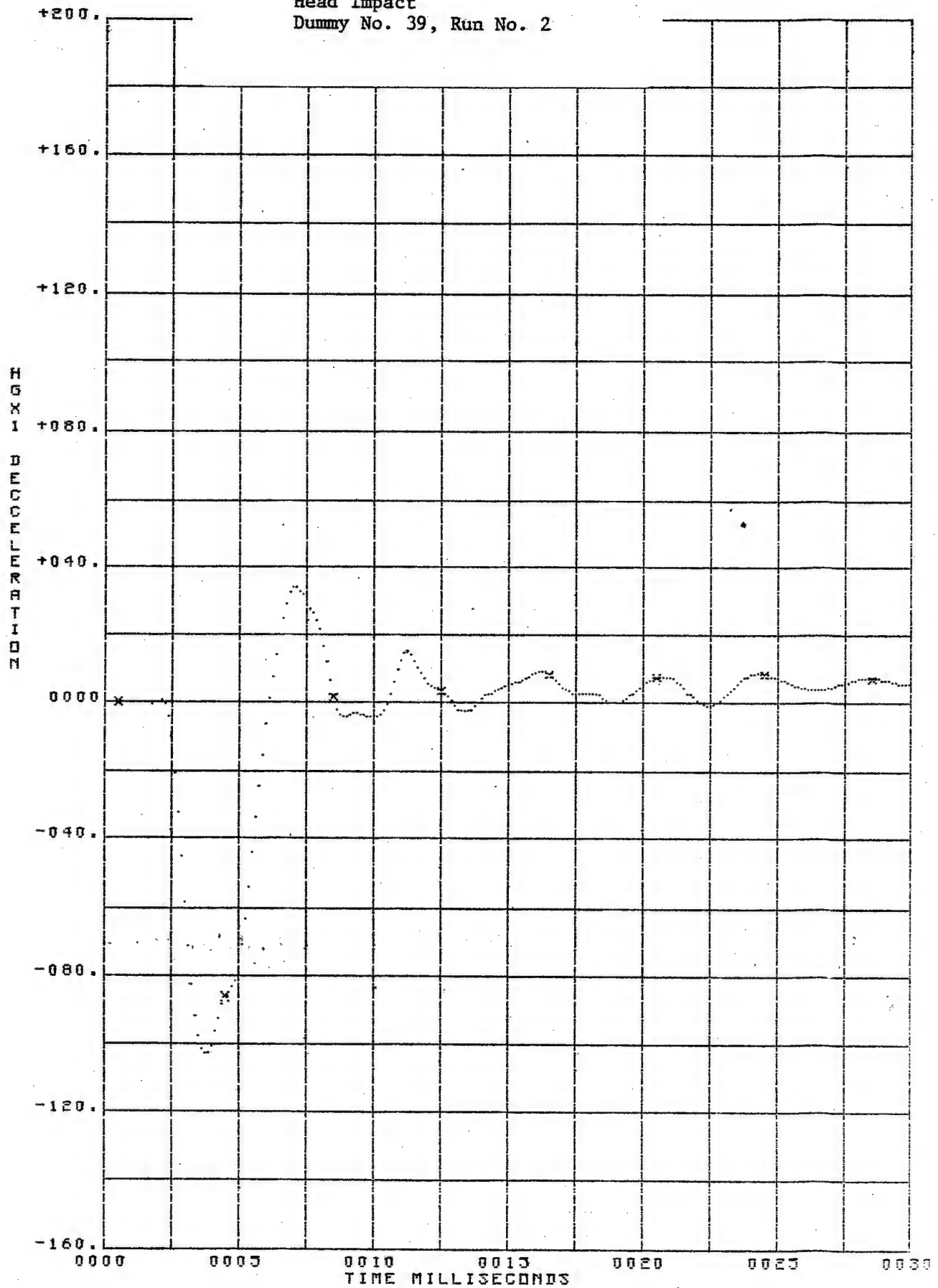
TIME					
0.0000	+000.1	+000.1	+000.1	+000.1	+000.1
0.6250	+000.1	+000.1	+000.1	+000.1	+000.2
1.2500	+000.2	+000.3	+000.2	+000.2	+000.4
1.8750	+001.2	+002.5	+004.3	+006.8	+009.4
2.5000	+013.2	+018.5	+025.6	+034.8	+046.6
3.1250	+059.3	+072.0	+083.2	+092.2	+098.3
3.7500	+102.0	+103.6	+103.2	+101.1	+097.5
4.3750	+093.3	+089.7	+088.0	+087.3	+086.4
5.0000	+084.0	+079.4	+072.5	+063.9	+054.2
5.6250	+043.8	+033.4	+023.4	+014.0	+006.2
6.2500	+004.5	+010.6	+017.2	+023.1	+028.0
6.8750	+031.6	+033.9	+035.0	+034.8	+033.6
7.5000	+031.8	+029.6	+027.5	+025.2	+022.7
8.1250	+019.5	+015.1	+010.1	+005.1	+002.6
8.7500	+005.7	+008.9	+010.8	+011.2	+010.3
9.3750	+008.2	+006.2	+005.0	+004.7	+005.0
10.0000	+005.4	+005.9	+006.2	+005.8	+004.6
10.6250	+002.9	+002.9	+005.8	+009.5	+012.7
11.2500	+014.8	+015.5	+014.9	+013.5	+011.9
11.8750	+010.7	+010.0	+009.5	+009.0	+008.0
12.5000	+006.6	+004.7	+003.0	+002.0	+002.9
13.1250	+004.0	+004.2	+003.9	+003.1	+002.2
13.7500	+002.0	+003.0	+004.2	+005.0	+005.6
14.3750	+006.0	+006.1	+006.2	+006.1	+006.1
15.0000	+006.1	+005.9	+005.9	+005.9	+005.9
15.6250	+006.0	+006.4	+006.8	+007.5	+007.9
16.2500	+008.4	+008.6	+008.7	+008.6	+008.0
16.8750	+007.3	+006.6	+005.7	+005.1	+004.6
17.5000	+004.0	+003.7	+003.5	+003.4	+003.3
18.1250	+003.1	+002.6	+002.0	+001.5	+001.2
18.7500	+001.2	+001.5	+002.0	+002.2	+002.5
19.3750	+002.8	+003.2	+003.6	+004.2	+004.8
20.0000	+005.4	+006.0	+006.6	+007.0	+007.5
20.6250	+007.7	+007.6	+007.5	+007.3	+007.0
21.2500	+006.4	+005.9	+005.0	+004.1	+003.1
21.8750	+002.1	+001.1	+000.3	+000.4	+000.9
22.5000	+001.0	+001.0	+000.8	+000.4	+000.5
23.1250	+001.5	+002.5	+003.6	+004.6	+005.7
23.7500	+006.4	+007.2	+007.6	+008.0	+008.2
24.3750	+008.3	+008.2	+008.0	+007.7	+007.5
25.0000	+007.2	+006.8	+006.4	+006.1	+005.7
25.6250	+005.2	+004.8	+004.4	+004.2	+003.9
26.2500	+003.8	+003.6	+003.7	+003.7	+003.9
26.8750	+004.2	+004.4	+004.7	+005.0	+005.5
27.5000	+005.8	+006.1	+006.5	+006.8	+006.9
28.1250	+007.1	+007.2	+007.2	+007.2	+007.2
28.7500	+007.1	+007.0	+006.9	+006.6	+006.6
29.3750	+006.5	+006.2	+006.1	+006.0	+005.8
30.0000	+005.7	+005.7	+005.6	+005.4	+005.3
30.6250	+005.3	+005.3	+005.3	+005.3	+005.3
31.2500	+005.4	+005.4	+005.6	+005.7	+005.8
31.8750	+005.9	+006.1	+006.3	+006.4	+006.5
32.5000	+006.7	+006.8	+006.8	+006.9	+006.9
33.1250	+006.9	+006.9	+006.9	+006.7	+006.5
33.7500	+006.4	+006.4	+006.1	+006.0	+005.8
34.3750	+005.5	+005.5	+005.3	+005.2	+005.1
35.0000	+005.1	+005.0	+005.1	+005.2	+005.4
35.6250	+005.5	+005.6	+005.7	+006.0	+006.1
36.2500	+006.2	+006.4	+006.7	+006.8	+006.8
36.8750	+007.0	+007.0	+007.0	+007.0	+006.8

RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H101		
37.5000	+006.7	+006.7	+006.5	+006.2	+006.1	
38.1250	+005.7	+005.6	+005.4	+005.3	+005.1	
38.7500	+005.1	+005.0	+005.1	+005.1	+005.2	
39.3750	+005.4	+005.6	+005.7	+005.9	+006.0	
40.0000	+006.3	+006.4	+006.5	+006.6	+006.7	
40.6250	+006.9	+006.8	+006.8	+006.7	+006.6	
41.2500	+006.5	+006.5	+006.4	+006.2	+006.1	
41.8750	+005.9	+005.9	+005.9	+005.8	+005.6	
42.5000	+005.6	+005.6	+005.6	+005.5	+005.6	
43.1250	+005.7	+005.7	+005.7	+005.7	+005.7	
43.7500	+005.7	+005.7	+005.8	+005.7	+005.8	
44.3750	+006.0	+006.0	+006.0	+006.1	+006.0	
45.0000	+006.1	+006.1	+006.1	+006.1	+006.1	
45.6250	+005.9	+006.0	+005.9	+005.9	+005.8	
46.2500	+005.8	+005.7	+005.7	+005.7	+005.7	
46.8750	+005.7	+005.7	+005.6	+005.5	+005.5	
47.5000	+005.5	+005.6	+005.6	+005.6	+005.7	
48.1250	+005.7	+005.7	+005.7	+005.7	+005.7	
48.7500	+005.7	+005.8	+005.8	+005.8	+005.8	
49.3750	+005.8	+005.8	+005.6	+005.6	+005.6	
50.0000	+005.6	+005.6	+005.5	+005.4	+005.4	
50.6250	+005.3	+005.3	+005.2	+005.2	+005.1	
51.2500	+005.1	+005.1	+005.1	+005.1	+005.0	
51.8750	+005.0	+005.0	+005.1	+005.1	+005.1	
52.5000	+005.2	+005.2	+005.2	+005.1	+005.1	
53.1250	+005.1	+005.1	+005.1	+005.1	+005.0	
53.7500	+005.0	+004.9	+004.8	+004.8	+004.7	
54.3750	+004.7	+004.6	+004.6	+004.6	+004.4	
55.0000	+004.3	+004.4	+004.4	+004.4	+004.4	
55.6250	+004.3	+004.4	+004.4	+004.4	+004.3	
56.2500	+004.2	+004.3	+004.3	+004.3	+004.3	
56.8750	+004.3	+004.3	+004.3	+004.2	+004.1	
57.5000	+004.0	+003.9	+003.8	+003.7	+003.7	
58.1250	+003.6	+003.6	+003.7	+003.7	+003.5	
58.7500	+003.5	+003.4	+003.2	+003.1	+002.8	
59.3750	+002.5	+002.1	+001.7	+001.3	+313.4	

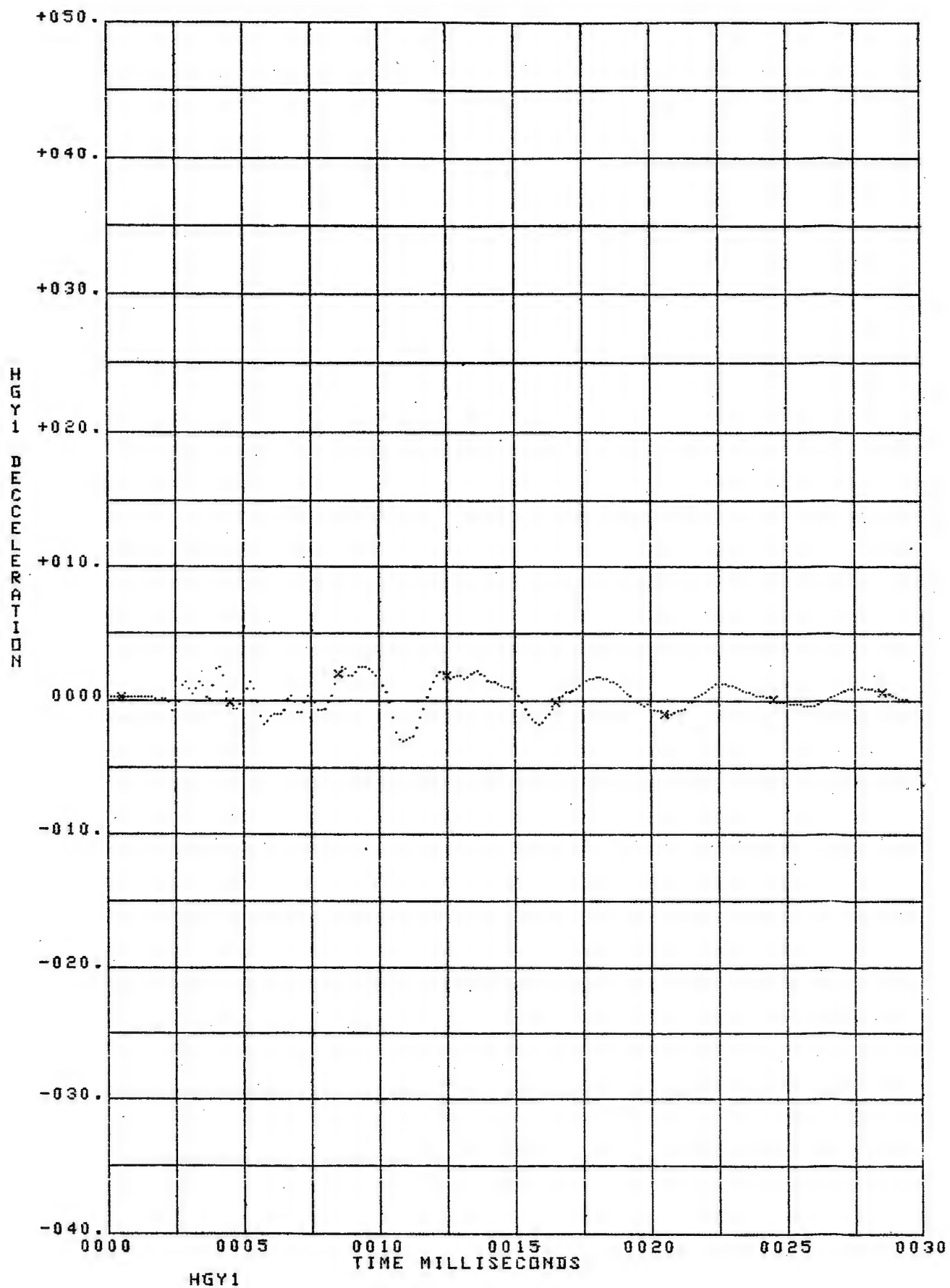
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AT T=003.8

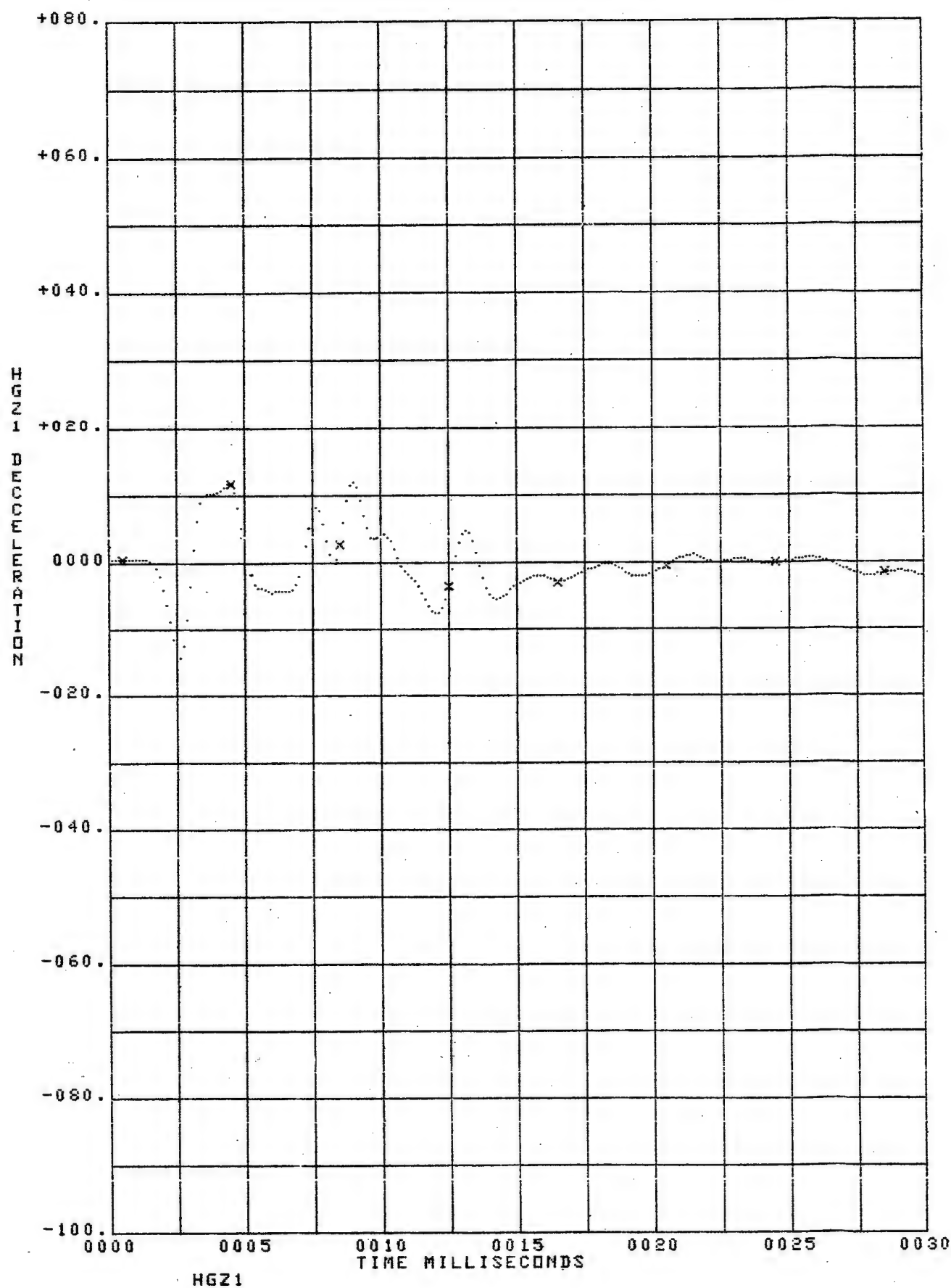
Head Impact
Dummy No. 39, Run No. 2



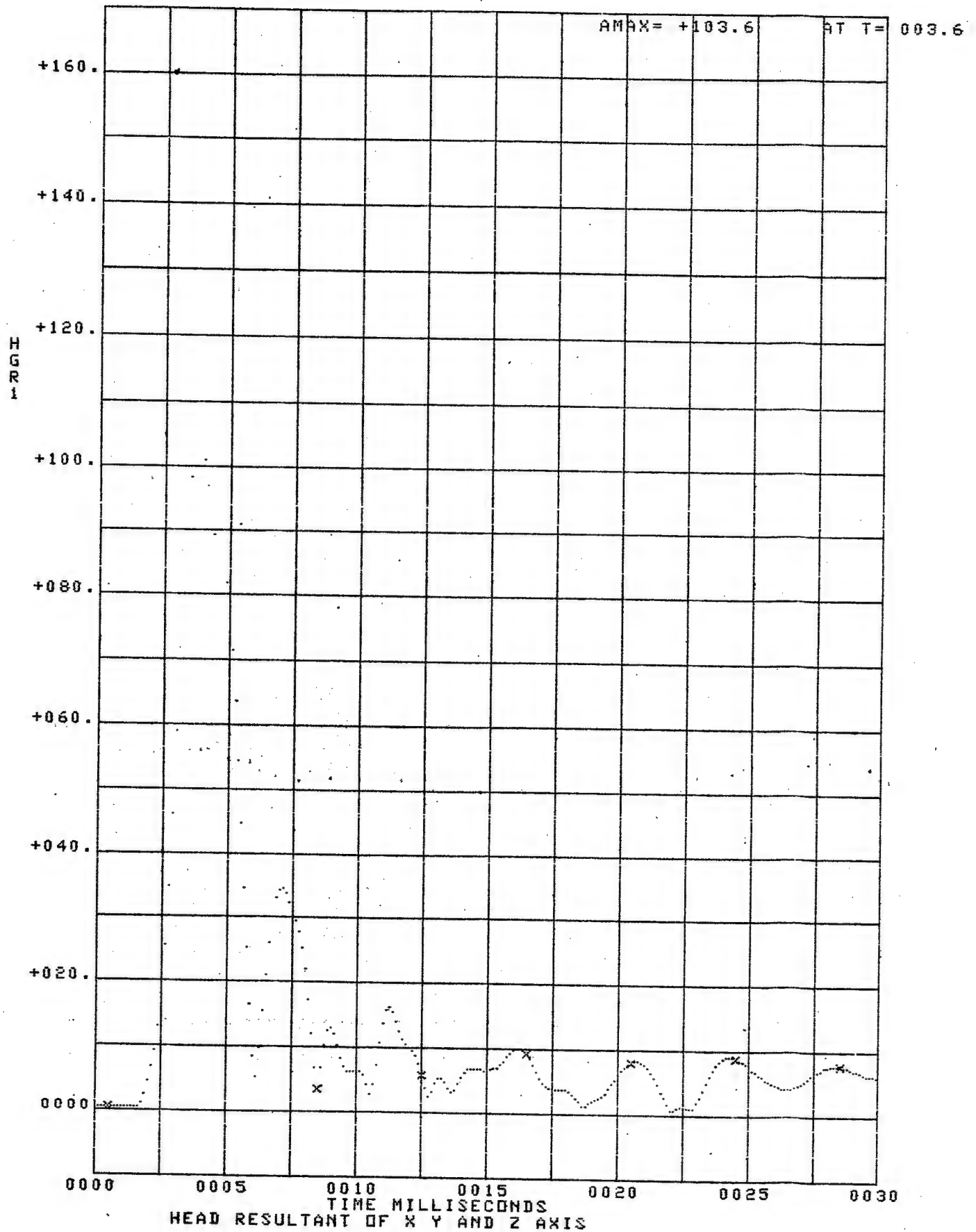
HEAD IMPACT
TEST H102



HEAD IMPACT
TEST H102



HEAD IMPACT
TEST H102



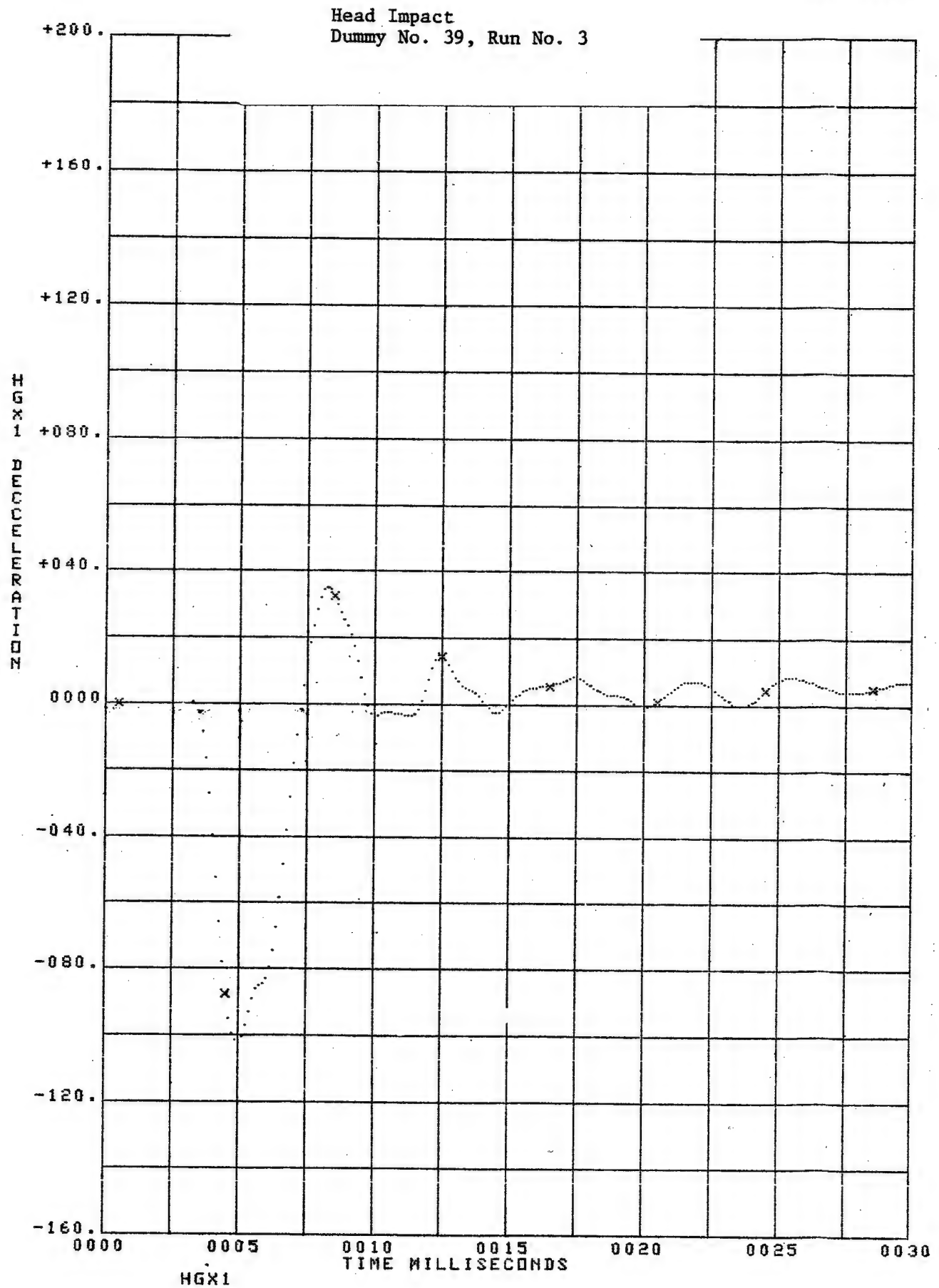
RESULTANT (HGR1) OF HGX1 HGY1 HGZ1 H102

TIME					
0.0000	+000.2	+000.2	+000.2	+000.	+000.1
0.6250	+000.1	+000.1	+000.1	+000.1	+000.2
1.2500	+000.1	+000.1	+000.2	+000.9	+002.3
1.8750	+004.1	+006.4	+009.0	+012.6	+018.0
2.5000	+025.2	+034.3	+045.8	+058.6	+071.4
3.1250	+083.0	+092.1	+098.2	+101.9	+103.6
3.7500	+103.1	+100.9	+096.9	+092.6	+089.0
4.3750	+086.9	+085.6	+084.2	+081.6	+077.2
5.0000	+071.2	+063.3	+054.0	+044.3	+034.2
5.6250	+024.9	+016.1	+008.3	+004.9	+009.3
6.2500	+015.1	+020.6	+025.5	+029.5	+032.5
6.8750	+033.9	+034.1	+033.2	+031.9	+030.5
7.5000	+029.2	+027.4	+024.9	+021.6	+017.0
8.1250	+011.7	+006.4	+003.1	+006.3	+010.0
8.7500	+012.0	+012.5	+011.5	+009.8	+007.8
9.3750	+006.6	+005.9	+005.8	+005.9	+005.9
10.0000	+005.9	+005.3	+003.9	+002.4	+003.8
10.6250	+007.0	+010.4	+013.4	+015.4	+015.8
11.2500	+015.1	+013.7	+012.1	+011.0	+010.2
11.8750	+009.7	+009.2	+008.4	+007.2	+005.4
12.5000	+003.3	+002.2	+003.0	+004.3	+004.9
13.1250	+004.9	+004.3	+003.4	+002.8	+003.2
13.7500	+004.3	+005.3	+005.9	+006.3	+006.5
14.3750	+006.5	+006.4	+006.3	+006.3	+006.3
15.0000	+006.4	+006.6	+006.6	+007.1	+007.7
15.6250	+008.4	+009.0	+009.5	+009.7	+009.7
16.2500	+009.5	+008.9	+008.1	+007.0	+006.1
16.8750	+005.1	+004.4	+003.9	+003.6	+003.4
17.5000	+003.4	+003.4	+003.4	+003.3	+003.1
18.1250	+002.6	+002.1	+001.6	+001.3	+001.3
18.7500	+001.4	+001.7	+001.9	+002.2	+002.5
19.3750	+003.0	+003.7	+004.3	+005.0	+005.7
20.0000	+006.3	+006.9	+007.5	+007.7	+007.9
20.6250	+007.9	+007.8	+007.4	+006.9	+006.3
21.2500	+005.4	+004.3	+003.3	+002.3	+001.4
21.8750	+000.5	+000.4	+000.9	+001.2	+001.2
22.5000	+001.0	+000.8	+000.8	+001.5	+002.4
23.1250	+003.5	+004.6	+005.7	+006.7	+007.5
23.7500	+008.0	+008.5	+008.7	+008.8	+008.6
24.3750	+008.5	+008.3	+007.9	+007.6	+007.1
25.0000	+006.7	+006.4	+005.9	+005.6	+005.2
25.6250	+004.9	+004.6	+004.3	+004.1	+003.9
26.2500	+003.9	+004.0	+004.0	+004.2	+004.5
26.8750	+004.7	+005.0	+005.5	+005.8	+006.1
27.5000	+006.5	+006.8	+007.0	+007.1	+007.4
28.1250	+007.4	+007.3	+007.3	+007.2	+007.0
28.7500	+006.9	+006.7	+006.5	+006.4	+006.1
29.3750	+006.0	+006.0	+005.8	+005.7	+005.6
30.0000	+005.5	+005.5	+005.4	+005.4	+005.2
30.6250	+005.2	+005.2	+005.3	+005.3	+005.3
31.2500	+005.3	+005.5	+005.6	+005.8	+006.0
31.8750	+006.1	+006.3	+006.5	+006.6	+006.7
32.5000	+006.8	+006.8	+006.8	+006.8	+006.8
33.1250	+006.6	+006.7	+006.6	+006.4	+006.2
33.7500	+006.0	+005.9	+005.8	+005.7	+005.5
34.3750	+005.4	+005.3	+005.1	+005.1	+005.0
35.0000	+005.0	+005.2	+005.3	+005.4	+005.5
35.6250	+005.6	+005.9	+006.1	+006.3	+006.6
36.2500	+006.8	+006.8	+006.9	+007.1	+007.2
36.8750	+007.1	+007.1	+007.1	+007.0	+006.9

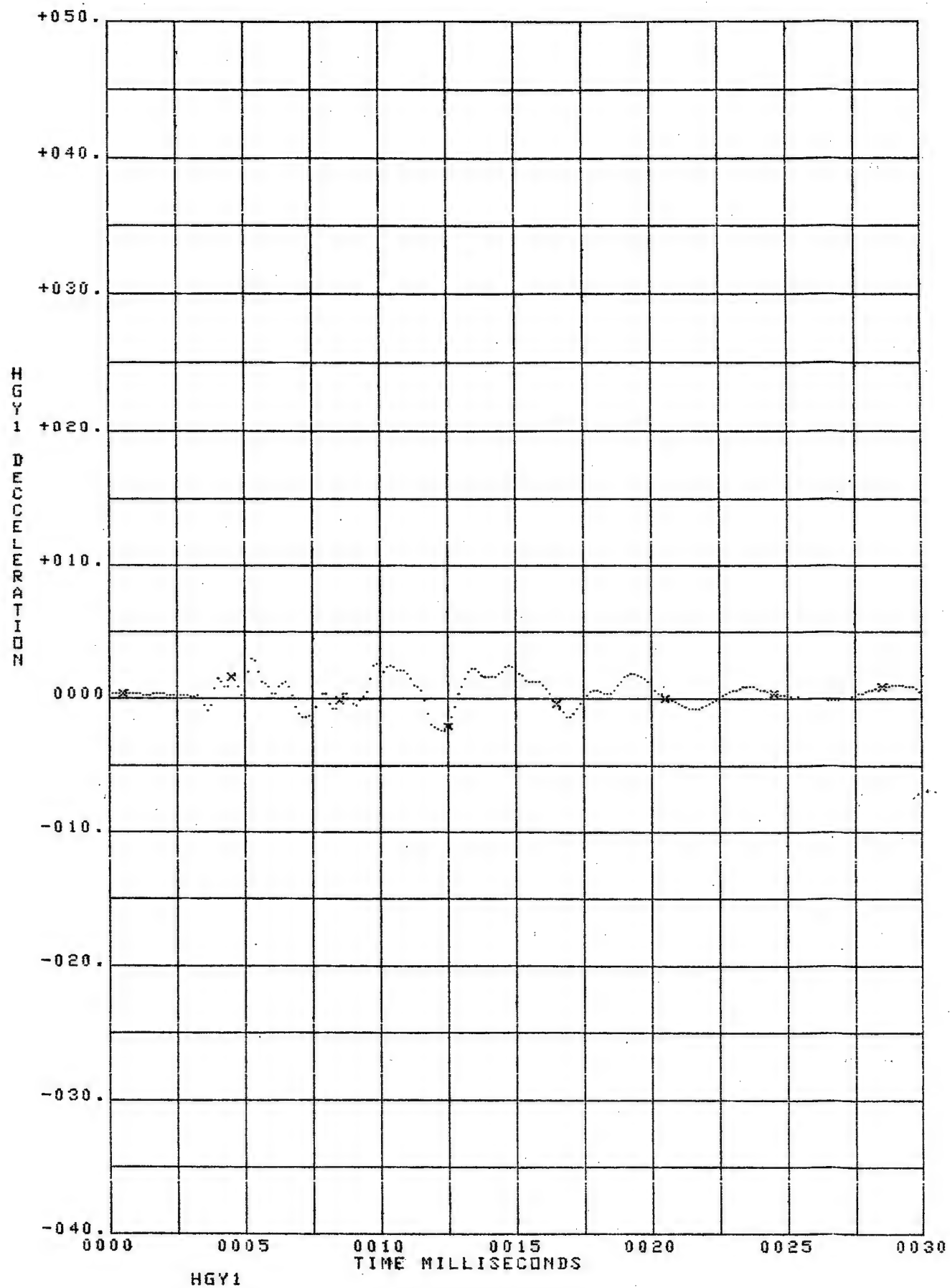
RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H102		
37.5000	+006.7	+006.5	+006.4	+006.1	+005.9	
38.1250	+005.6	+005.6	+005.4	+005.3	+005.3	
38.7500	+005.2	+005.2	+005.3	+005.4	+005.7	
39.3750	+005.7	+005.9	+006.1	+006.3	+006.3	
40.0000	+006.4	+006.5	+006.6	+006.6	+006.5	
40.6250	+006.6	+006.5	+006.5	+006.5	+006.3	
41.2500	+006.3	+006.3	+006.2	+006.0	+006.0	
41.8750	+005.8	+005.8	+005.7	+005.7	+005.6	
42.5000	+005.6	+005.6	+005.6	+005.6	+005.6	
43.1250	+005.6	+005.6	+005.6	+005.8	+005.9	
43.7500	+005.9	+005.9	+005.9	+005.9	+005.9	
44.3750	+006.1	+006.1	+006.1	+006.1	+006.1	
45.0000	+006.1	+006.1	+006.1	+006.1	+006.1	
45.6250	+005.9	+005.9	+005.9	+005.6	+005.6	
46.2500	+005.6	+005.6	+005.6	+005.5	+005.4	
46.8750	+005.5	+005.5	+005.5	+005.4	+005.5	
47.5000	+005.5	+005.5	+005.5	+005.5	+005.6	
48.1250	+005.6	+005.5	+005.6	+005.6	+005.6	
48.7500	+005.6	+005.6	+005.6	+005.6	+005.6	
49.3750	+005.6	+005.6	+005.6	+005.6	+005.6	
50.0000	+005.4	+005.4	+005.4	+005.4	+005.3	
50.6250	+005.2	+005.1	+005.1	+005.0	+005.0	
51.2500	+005.1	+005.1	+005.1	+005.0	+005.0	
51.8750	+005.1	+005.1	+005.1	+005.2	+005.2	
52.5000	+005.2	+005.2	+005.2	+005.2	+005.2	
53.1250	+005.2	+005.2	+005.2	+005.1	+005.1	
53.7500	+005.1	+005.0	+004.9	+004.9	+004.9	
54.3750	+004.9	+004.9	+004.7	+004.6	+004.6	
55.0000	+004.6	+004.6	+004.6	+004.6	+004.6	
55.6250	+004.6	+004.6	+004.5	+004.6	+004.5	
56.2500	+004.5	+004.5	+004.5	+004.5	+004.4	
56.8750	+004.3	+004.1	+004.0	+003.8	+003.6	
57.5000	+003.6	+003.5	+003.5	+003.5	+003.4	
58.1250	+003.4	+003.3	+003.1	+002.8	+002.5	
58.7500	+002.1	+001.8	+001.4	+000.9	+000.7	
59.3750	+000.4	+000.4	+000.4	+000.7	+313.4	

AMAX= +103.6

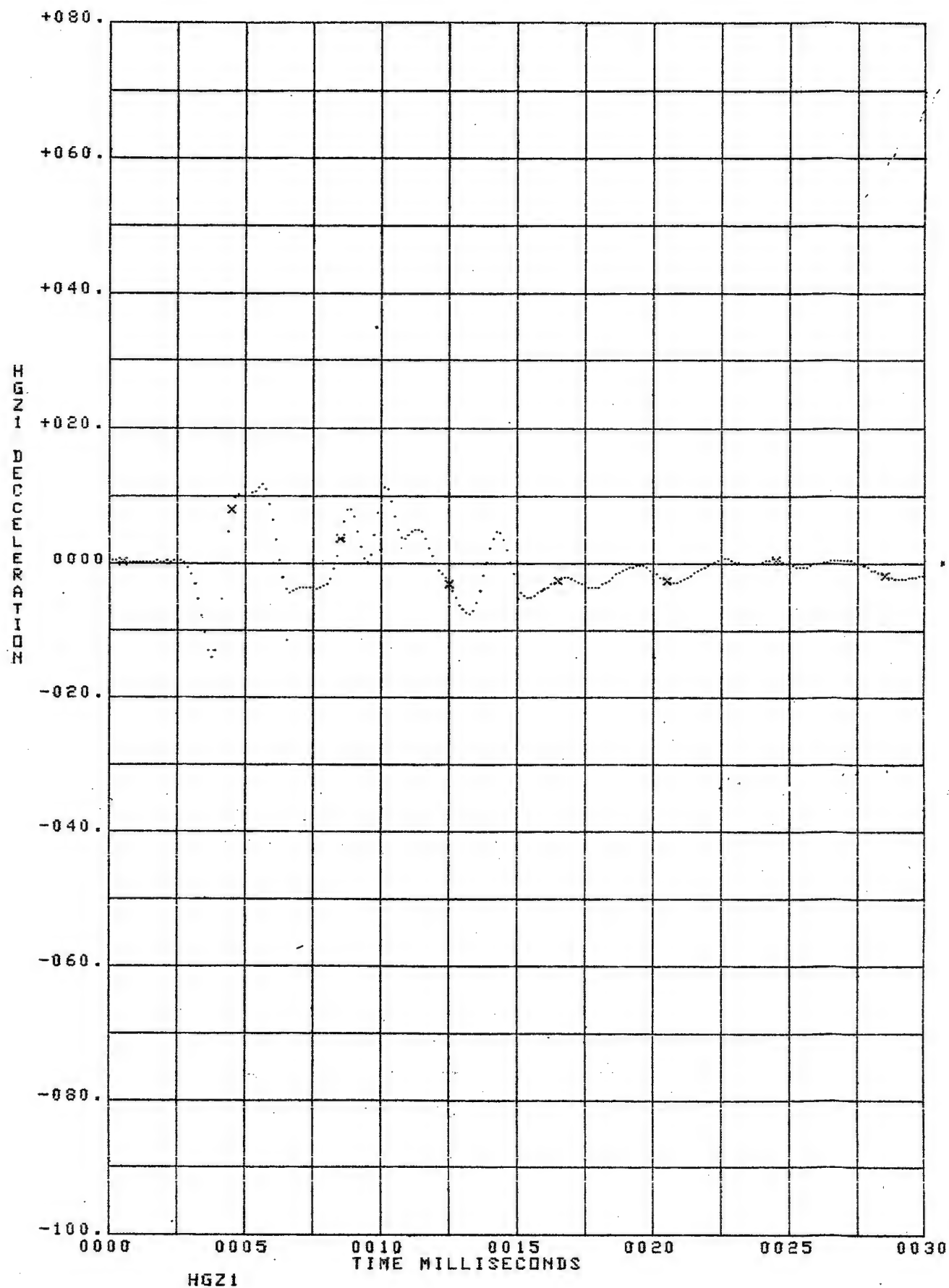
AT T=003.6



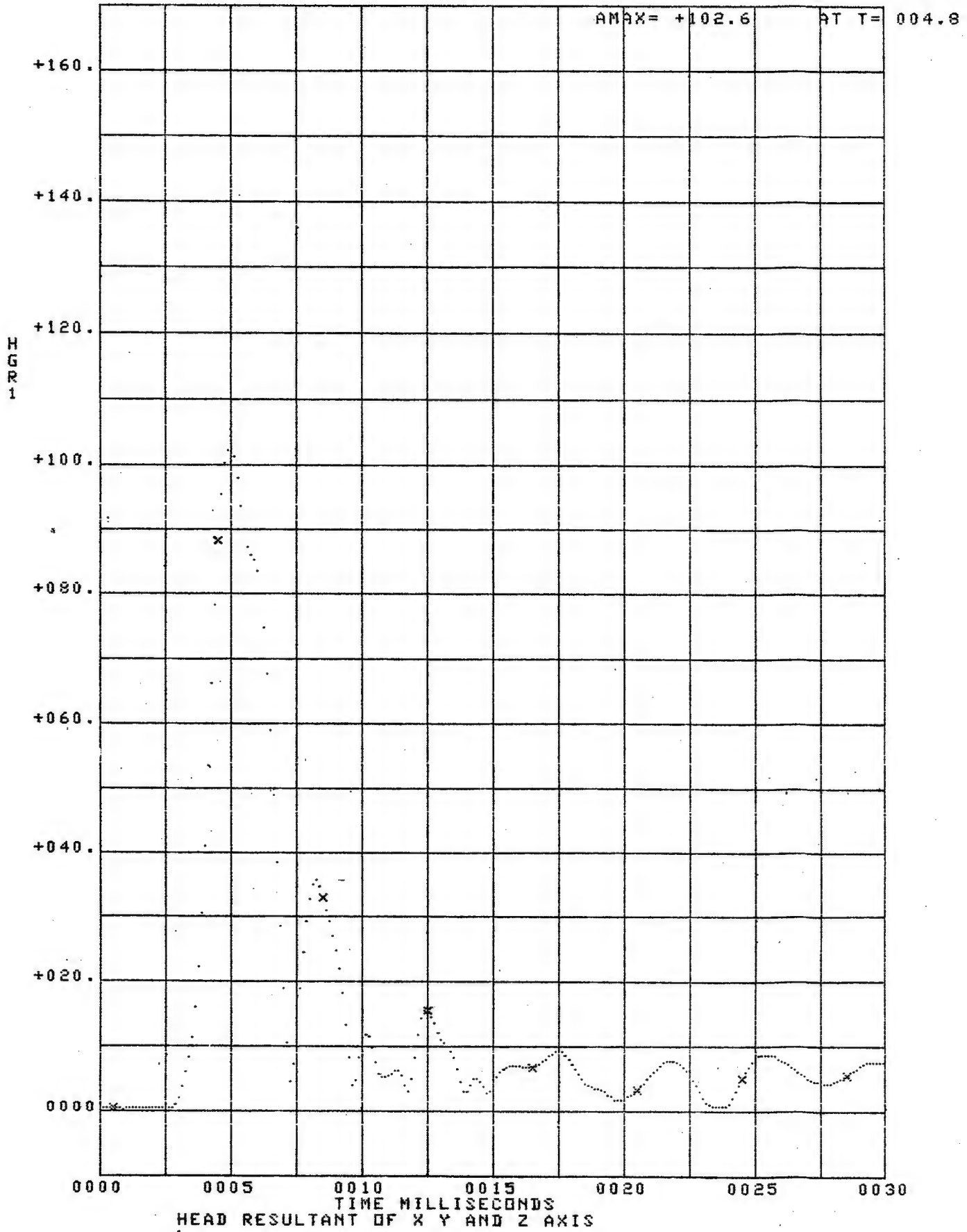
HEAD IMPACT
TEST H103



HEAD IMPACT
TEST H103



HEAD IMPACT
TEST H103



RESULTANT (HGR1) OF HGR1 HGY1 HGZ1 H103

TIME					
0.0000	+000.1	+000.2	+000.1	+000.1	+000.1
0.6250	+000.1	+000.0	+000.1	+000.1	+000.1
1.2500	+000.1	+000.1	+000.1	+000.1	+000.1
1.8750	+000.1	+000.2	+000.2	+000.2	+000.2
2.5000	+000.2	+000.1	+000.7	+001.7	+003.3
3.1250	+005.6	+007.9	+010.9	+015.6	+021.9
3.7500	+030.1	+040.6	+053.0	+065.8	+078.0
4.3750	+088.0	+095.4	+100.0	+102.2	+102.6
5.0000	+101.1	+097.8	+093.6	+089.7	+087.1
5.6250	+085.8	+085.0	+083.2	+079.7	+074.5
6.2500	+067.5	+058.2	+048.6	+038.1	+028.1
6.8750	+018.5	+010.1	+004.2	+007.0	+012.9
7.5000	+018.7	+024.0	+028.8	+032.3	+034.6
8.1250	+035.2	+034.3	+032.7	+030.6	+028.8
8.7500	+026.6	+024.4	+021.5	+017.8	+012.9
9.3750	+008.0	+003.6	+004.5	+007.9	+010.4
10.0000	+011.4	+011.1	+009.3	+007.2	+005.5
10.6250	+004.9	+004.9	+005.1	+005.5	+006.0
11.2500	+006.0	+005.2	+003.6	+002.7	+004.7
11.8750	+008.0	+011.3	+013.9	+015.2	+015.1
12.5000	+014.3	+013.0	+011.7	+010.8	+010.2
13.1250	+009.7	+009.0	+007.9	+006.2	+004.2
13.7500	+002.6	+002.6	+003.6	+004.6	+004.6
14.3750	+004.1	+003.3	+002.5	+002.7	+003.8
15.0000	+004.9	+005.7	+006.2	+006.5	+006.6
15.6250	+006.7	+006.7	+006.5	+006.5	+006.3
16.2500	+006.3	+006.3	+006.6	+006.9	+007.3
16.8750	+007.8	+008.3	+008.7	+009.0	+009.1
17.5000	+008.9	+008.4	+007.5	+006.9	+006.1
18.1250	+005.3	+004.7	+004.0	+003.6	+003.4
18.7500	+003.2	+003.2	+003.0	+002.8	+002.3
19.3750	+001.8	+001.4	+001.4	+001.4	+001.6
20.0000	+001.8	+002.2	+002.6	+003.0	+003.6
20.6250	+003.9	+004.5	+005.1	+005.6	+006.2
21.2500	+006.8	+007.1	+007.3	+007.3	+007.3
21.8750	+007.1	+006.9	+006.5	+005.9	+005.3
22.5000	+004.5	+003.6	+002.8	+001.8	+001.3
23.1250	+000.7	+000.5	+000.5	+000.4	+000.4
23.7500	+000.4	+000.9	+001.7	+002.6	+003.6
24.3750	+004.7	+005.7	+006.4	+007.1	+007.7
25.0000	+008.2	+008.4	+008.4	+008.5	+008.3
25.6250	+008.1	+007.8	+007.5	+007.2	+006.9
26.2500	+006.5	+006.2	+005.7	+005.4	+005.1
26.8750	+004.8	+004.5	+004.2	+004.1	+004.0
27.5000	+004.0	+003.9	+003.9	+004.2	+004.4
28.1250	+004.7	+005.0	+005.3	+005.6	+006.0
28.7500	+006.2	+006.7	+006.8	+007.0	+007.2
29.3750	+007.2	+007.2	+007.2	+007.2	+007.0
30.0000	+006.9	+006.7	+006.6	+006.5	+006.4
30.6250	+006.1	+006.0	+005.9	+005.8	+005.6
31.2500	+005.6	+005.5	+005.5	+005.4	+005.4
31.8750	+005.4	+005.4	+005.5	+005.5	+005.6
32.5000	+005.8	+005.9	+006.1	+006.2	+006.5
33.1250	+006.6	+006.7	+006.8	+007.0	+007.0
33.7500	+007.1	+007.1	+007.0	+007.0	+007.0
34.3750	+006.9	+006.8	+006.7	+006.5	+006.4
35.0000	+006.3	+006.1	+006.0	+005.8	+005.7
35.6250	+005.5	+005.4	+005.4	+005.4	+005.3
36.2500	+005.5	+005.4	+005.5	+005.7	+005.8
36.8750	+006.0	+006.1	+006.4	+006.7	+006.7

RESULTANT (HGR1) OF	HGX1	HGY1	HGZ1	H103		
37.5000	+006.8	+007.0	+007.1	+007.2	+007.2	
38.1250	+007.1	+007.1	+007.0	+007.0	+006.8	
38.7500	+006.7	+006.5	+006.2	+006.0	+006.0	
39.3750	+005.7	+005.7	+005.5	+005.5	+005.5	
40.0000	+005.5	+005.6	+005.6	+005.7	+005.9	
40.6250	+006.0	+006.2	+006.4	+006.5	+006.6	
41.2500	+006.8	+006.8	+006.8	+006.9	+006.9	
41.8750	+007.0	+007.0	+006.9	+007.0	+006.9	
42.5000	+006.9	+006.7	+006.7	+006.5	+006.4	
43.1250	+006.4	+006.1	+005.9	+005.9	+005.8	
43.7500	+005.7	+005.7	+005.7	+005.7	+005.7	
44.3750	+005.7	+005.7	+005.7	+005.7	+005.7	
45.0000	+005.7	+005.9	+005.9	+005.8	+006.0	
45.6250	+006.0	+006.0	+006.0	+006.0	+006.0	
46.2500	+006.1	+006.1	+006.1	+005.9	+005.9	
46.8750	+006.0	+005.9	+005.8	+005.7	+005.7	
47.5000	+005.7	+005.7	+005.7	+005.7	+005.6	
48.1250	+005.7	+005.7	+005.7	+005.7	+005.7	
48.7500	+005.7	+005.7	+005.8	+005.8	+005.9	
49.3750	+005.9	+006.0	+005.9	+005.9	+005.9	
50.0000	+005.9	+006.1	+006.1	+006.1	+006.1	
50.6250	+006.0	+005.9	+005.9	+005.7	+005.6	
51.2500	+005.6	+005.5	+005.4	+005.3	+005.2	
51.8750	+005.2	+005.2	+005.2	+005.2	+005.1	
52.5000	+005.1	+005.2	+005.2	+005.1	+005.2	
53.1250	+005.2	+005.3	+005.3	+005.3	+005.2	
53.7500	+005.3	+005.3	+005.3	+005.3	+005.3	
54.3750	+005.3	+005.3	+005.2	+005.1	+005.0	
55.0000	+005.0	+004.9	+004.9	+004.8	+004.7	
55.6250	+004.9	+004.7	+004.6	+004.6	+004.6	
56.2500	+004.6	+004.6	+004.5	+004.4	+004.2	
56.8750	+004.1	+003.9	+003.9	+003.9	+003.9	
57.5000	+003.9	+003.9	+003.9	+003.9	+003.9	
58.1250	+003.8	+003.9	+003.6	+003.6	+003.2	
58.7500	+002.9	+002.6	+002.2	+001.9	+001.5	
59.3750	+001.2	+000.9	+000.6	+000.4	+013.4	

AMAX= +102.6

AT. T=004.8

Chest Impact
Dummy No. 31, Run No. 1

03-31-78

SD# 780215

TRC311

NHTSA ETF ALDERSON 3 YEAR OLD SN 31

..... Velocity 10 fps
..... Resultant 50.6 G
..... Time Above 20G 3.5 m. sec.
.....

.....

.....

CHEST IMPACT

TRC NO. 311

0120

0120

31 MAR 78
Chart Impact - 311

CEI 8006/in

CEI 8006/in

CEI 8006/in

CEI 8006/in

VEI

Chest Impact
Dummy No. 31, Run No. 2

03-31-78

SD# 780215

TRC312

NHTSA ETF ALDERSON 3 YEAR OLD SN 31

..... Velocity 10 fps
..... Resultant 49.3 G
..... Time above 20G 3.75 msec.
.....
.....
.....

CHEST IMPACT

TRC NO 312

0120

0120

31 MAR 78
CHAST IMPACT # 312

CG 21 2006/12

CG 21 2006/12

CG 21 2006/12

CG 21 2006/12

VS

Chest Impact
Dummy No. 31, Run No. 3

03-31-78

SD# 780215

TRC313

NHTSA ETX ALDERSON 3 YEAR OLD SN 31

..... Velocity 10 fps
..... Resultant 54.9 G
..... Time above 20G 3.50 msec.
.....
.....
.....

CHEST IMPACT

TRC NO 313

0.120

0.120

31 MAR 78
Guest Impact - 313

CGZ1 2006/lin

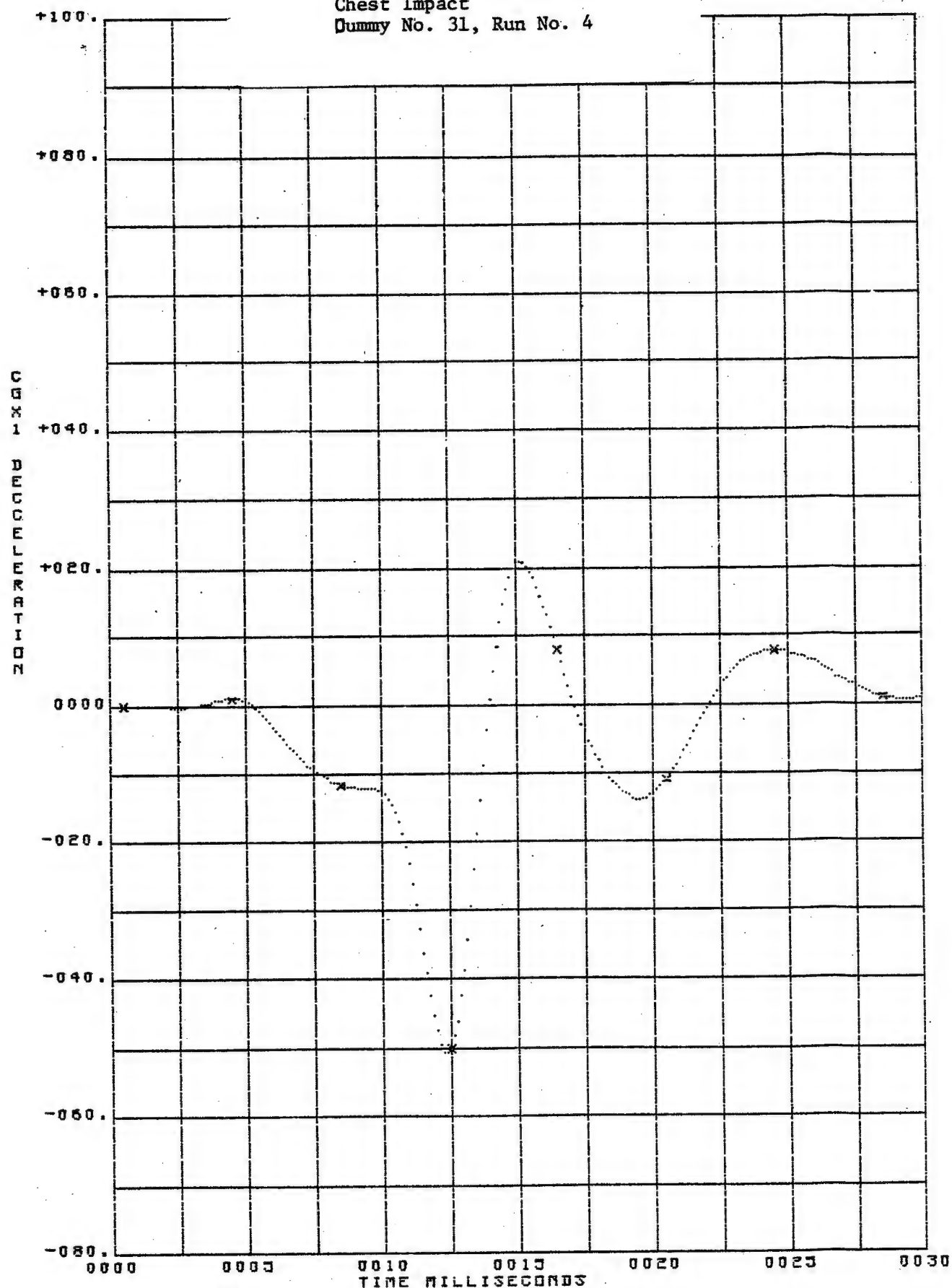
CGZ1 2006/lin

CGZ1 2006/lin

CGZ1 2006/lin

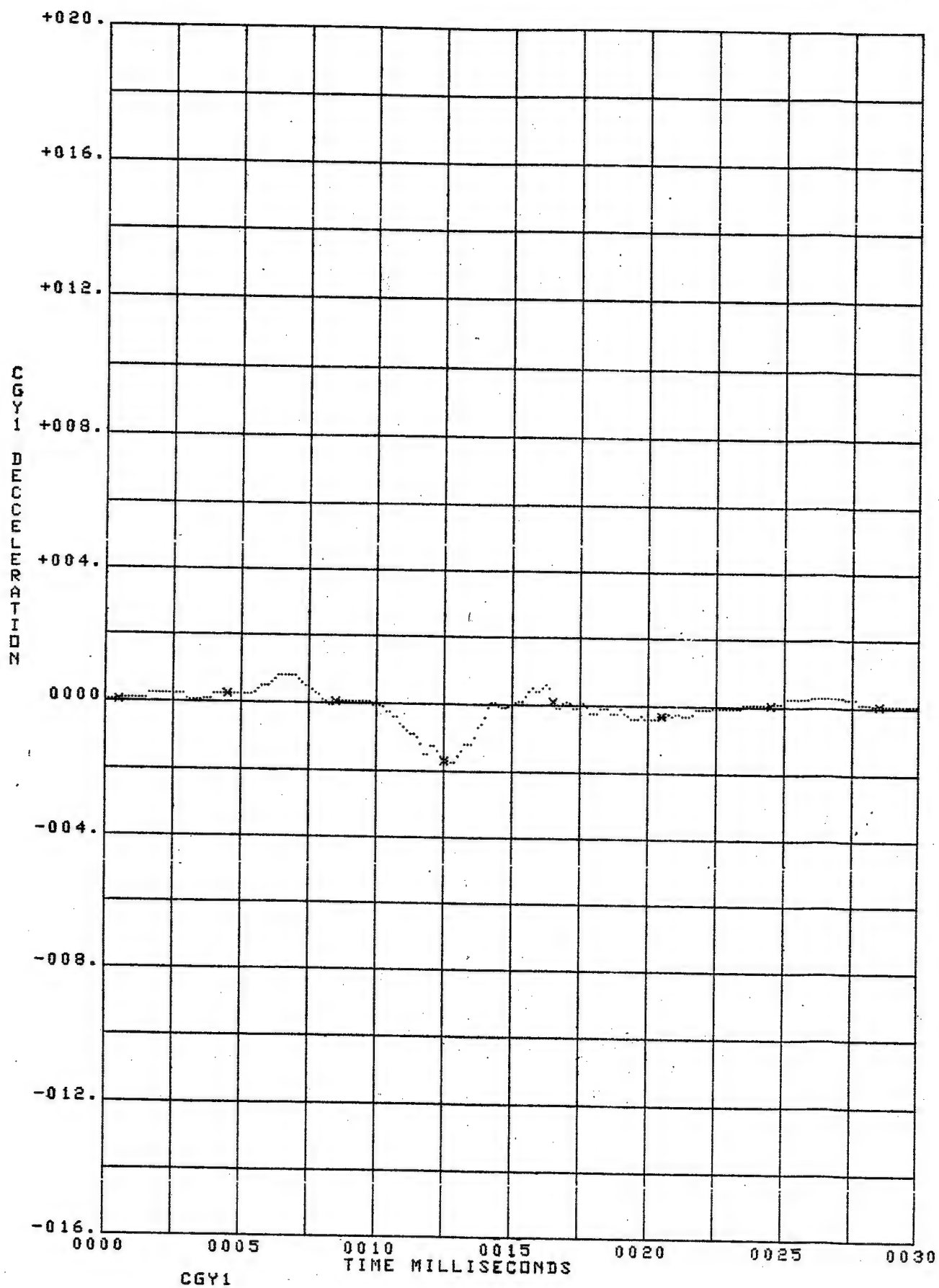
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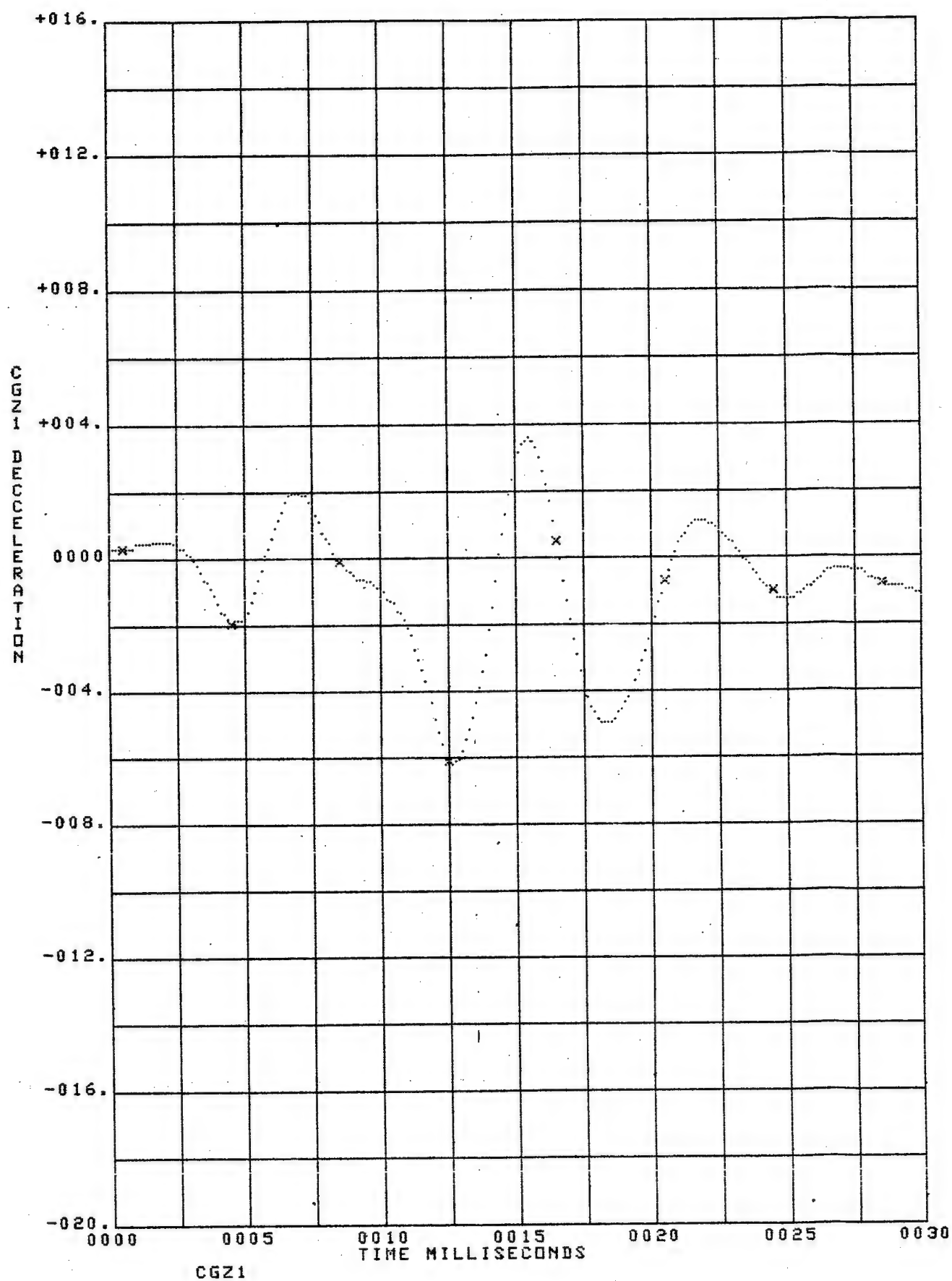
Chest Impact
Dummy No. 31, Run No. 4



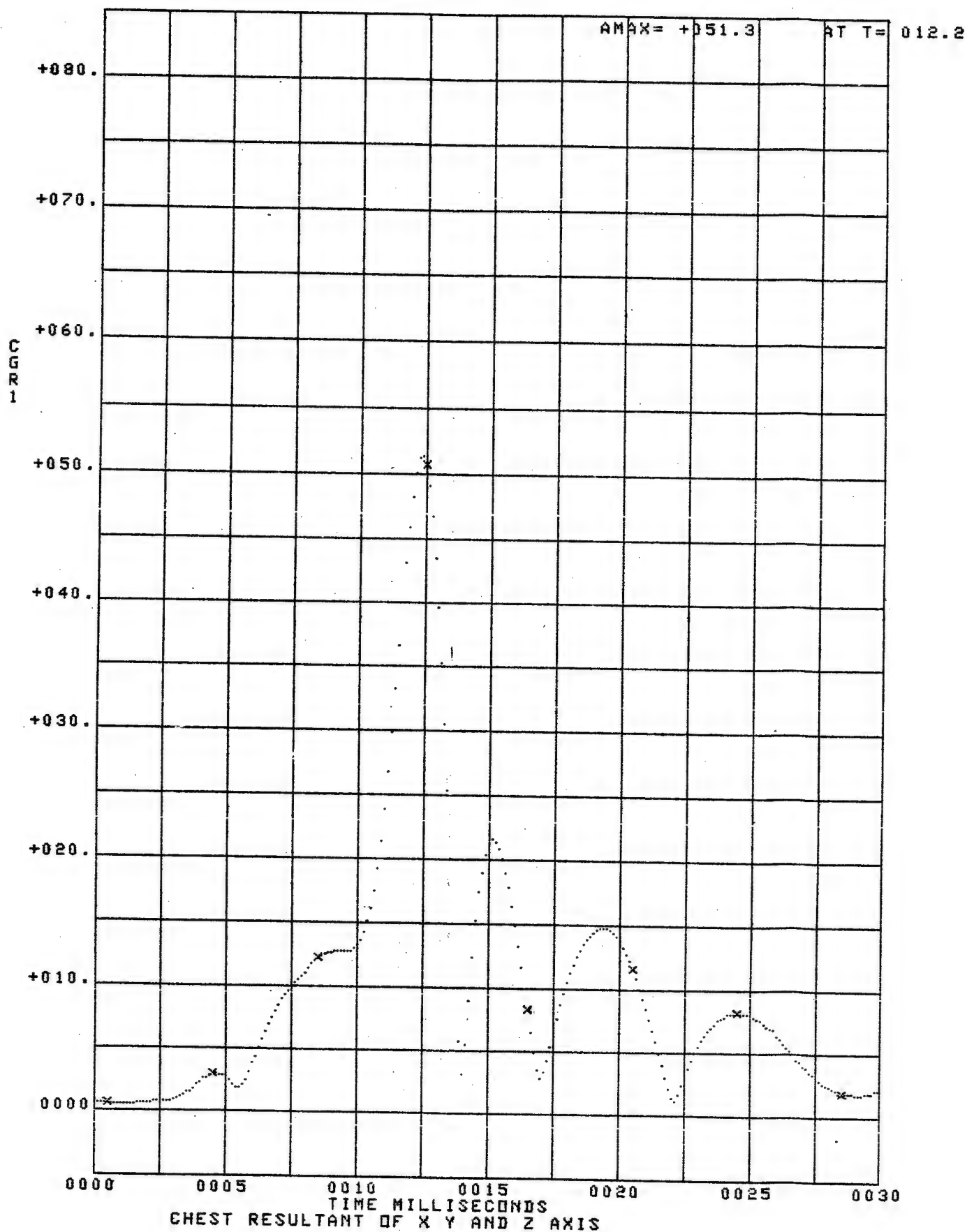
CGX1

CHEST IMPACT
TEST C001





CHEST IMPACT
TEST C001



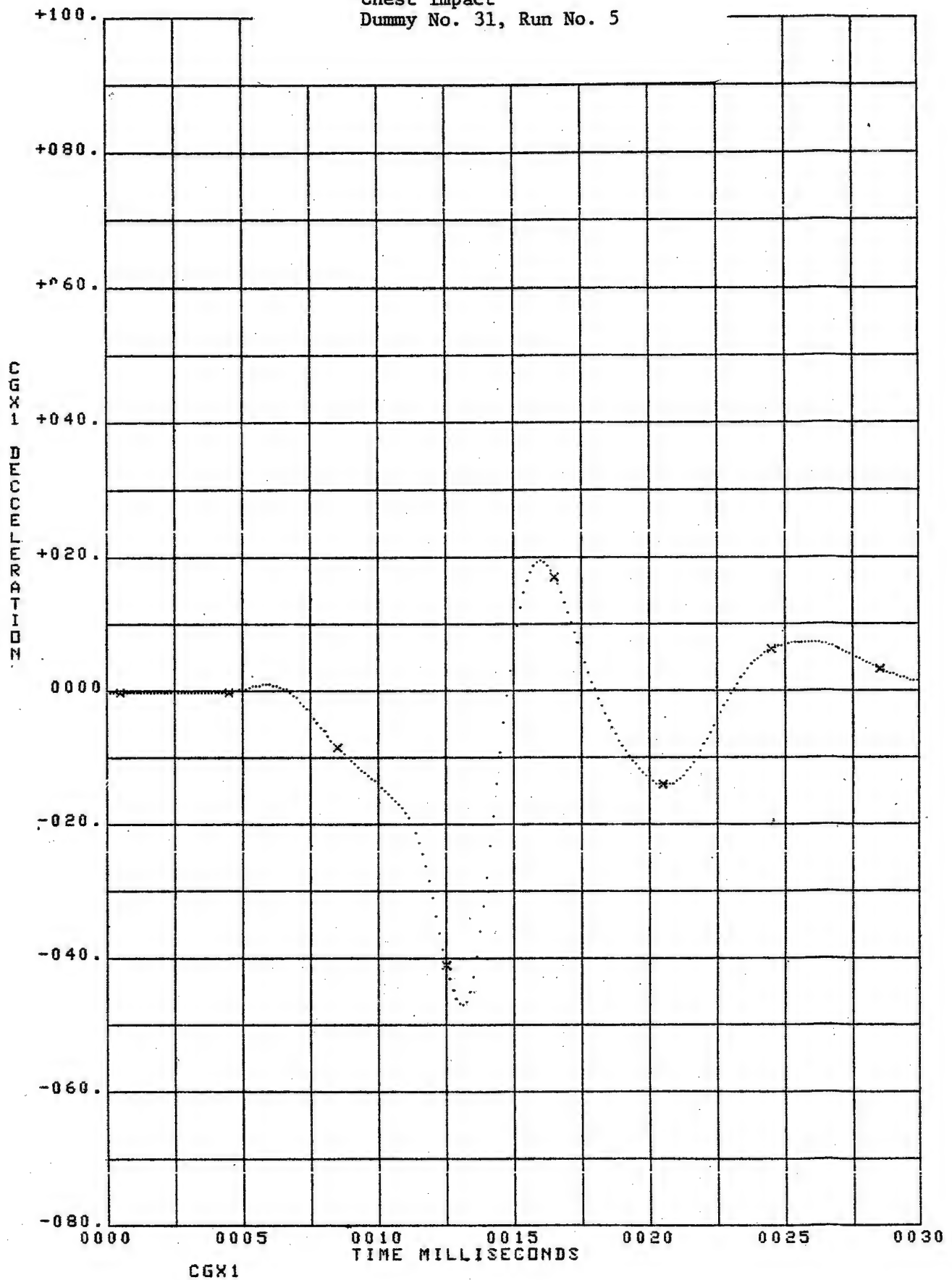
RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C001

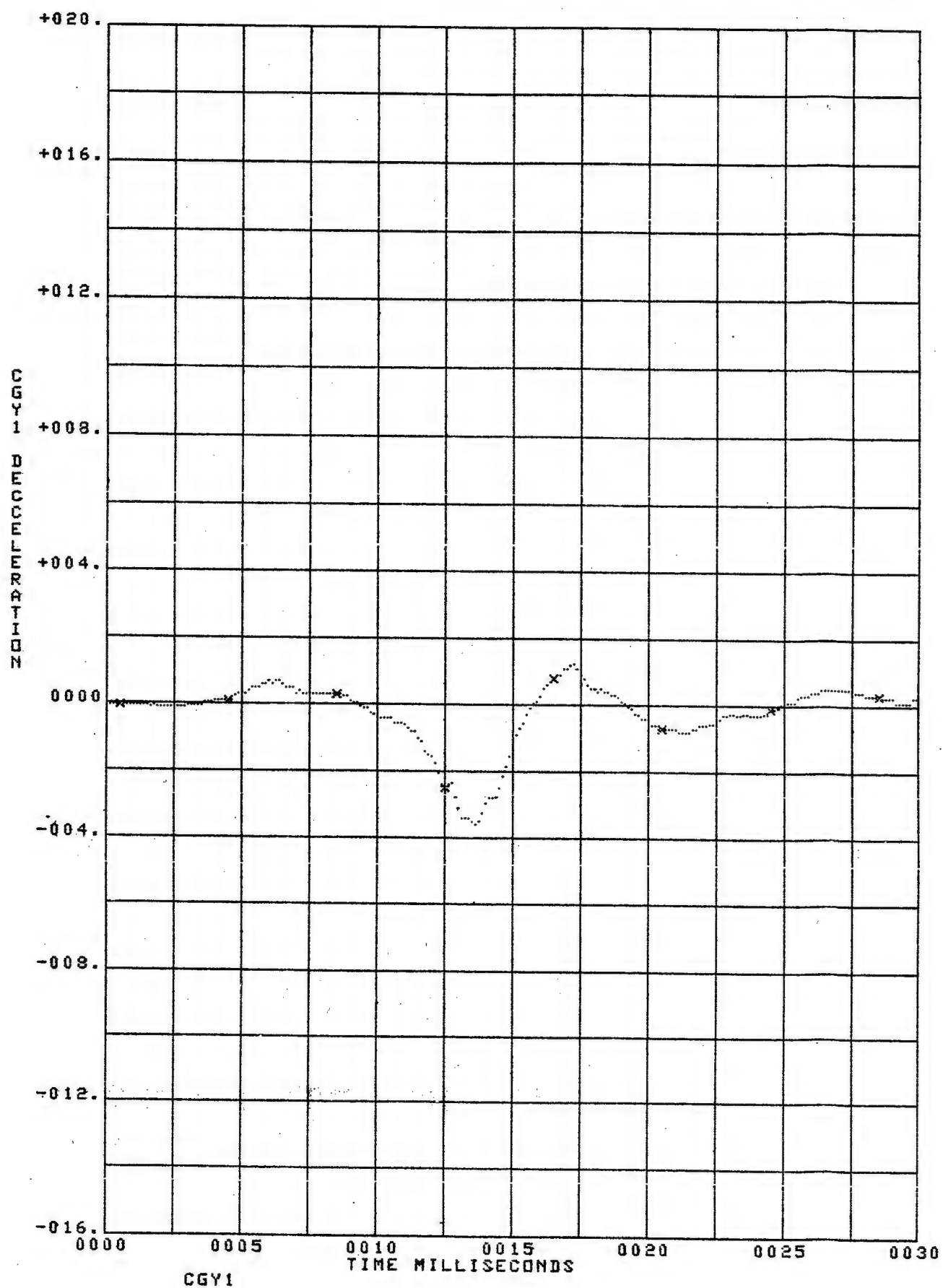
TIME					
0.0000	+000.1	+000.1	+000.1	+000.1	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.0	+000.0	+000.1	+000.1	+000.1
1.8750	+000.1	+000.1	+000.2	+000.2	+000.2
2.5000	+000.2	+000.2	+000.3	+000.3	+000.4
3.1250	+000.6	+000.7	+001.0	+001.0	+001.3
3.7500	+001.6	+001.8	+002.1	+002.2	+002.3
4.3750	+002.5	+002.5	+002.4	+002.3	+002.1
5.0000	+002.0	+001.7	+001.4	+001.4	+001.6
5.6250	+002.0	+002.6	+003.3	+003.9	+004.6
6.2500	+005.3	+005.9	+006.5	+007.0	+007.5
6.8750	+008.0	+008.4	+008.8	+009.1	+009.4
7.5000	+009.7	+010.0	+010.2	+010.5	+010.9
8.1250	+011.2	+011.5	+011.7	+011.8	+011.9
8.7500	+012.1	+012.1	+012.2	+012.2	+012.2
9.3750	+012.2	+012.2	+012.2	+012.5	+012.7
10.0000	+013.1	+013.7	+014.5	+015.6	+017.0
10.6250	+018.7	+020.8	+023.4	+026.3	+029.4
11.2500	+032.8	+036.3	+039.7	+042.9	+045.6
11.8750	+048.0	+050.0	+051.1	+051.3	+050.7
12.5000	+049.1	+046.6	+043.3	+039.3	+034.9
13.1250	+030.1	+024.8	+019.6	+014.5	+009.6
13.7500	+005.2	+002.7	+005.0	+008.5	+011.9
14.3750	+014.7	+016.9	+018.5	+019.8	+020.6
15.0000	+021.0	+020.8	+020.4	+019.6	+018.5
15.6250	+017.3	+015.9	+014.3	+012.8	+011.1
16.2500	+009.5	+007.8	+006.0	+004.4	+003.0
16.8750	+002.4	+002.8	+003.8	+004.9	+006.1
17.5000	+007.2	+008.2	+009.1	+010.0	+010.7
18.1250	+011.4	+011.9	+012.4	+013.0	+013.3
18.7500	+013.6	+013.9	+014.1	+014.2	+014.3
19.3750	+014.2	+014.0	+013.8	+013.6	+013.3
20.0000	+012.8	+012.2	+011.7	+011.1	+010.4
20.6250	+009.5	+008.7	+008.0	+007.1	+006.2
21.2500	+005.4	+004.4	+003.5	+002.5	+001.6
21.8750	+000.9	+000.7	+001.2	+001.9	+002.5
22.5000	+003.3	+003.9	+004.5	+005.0	+005.4
23.1250	+005.9	+006.3	+006.6	+006.8	+007.1
23.7500	+007.2	+007.4	+007.6	+007.6	+007.6
24.3750	+007.8	+007.6	+007.6	+007.6	+007.5
25.0000	+007.3	+007.3	+007.1	+006.9	+006.7
25.6250	+006.5	+006.3	+005.9	+005.7	+005.3
26.2500	+005.0	+004.7	+004.5	+004.0	+003.9
26.8750	+003.6	+003.3	+003.0	+002.8	+002.6
27.5000	+002.4	+002.2	+002.0	+001.9	+001.7
28.1250	+001.6	+001.4	+001.4	+001.4	+001.4
28.7500	+001.4	+001.3	+001.3	+001.3	+001.4
29.3750	+001.4	+001.4	+001.6	+001.6	+001.7
30.0000	+001.8	+002.0	+002.1	+002.4	+002.6
30.6250	+002.8	+002.9	+003.1	+003.3	+003.4
31.2500	+003.6	+003.8	+003.9	+004.1	+004.2
31.8750	+004.3	+004.4	+004.6	+004.6	+004.6
32.5000	+004.6	+004.8	+004.7	+004.8	+004.8
33.1250	+004.8	+004.8	+004.8	+004.8	+004.8
33.7500	+004.7	+004.7	+004.7	+004.6	+004.6
34.3750	+004.5	+004.5	+004.5	+004.3	+004.3
35.0000	+004.3	+004.3	+004.3	+004.3	+004.1
35.6250	+004.1	+004.0	+004.0	+003.9	+003.9
36.2500	+003.8	+003.8	+003.6	+003.6	+003.6
36.8750	+003.5	+003.5	+003.5	+003.3	+003.3

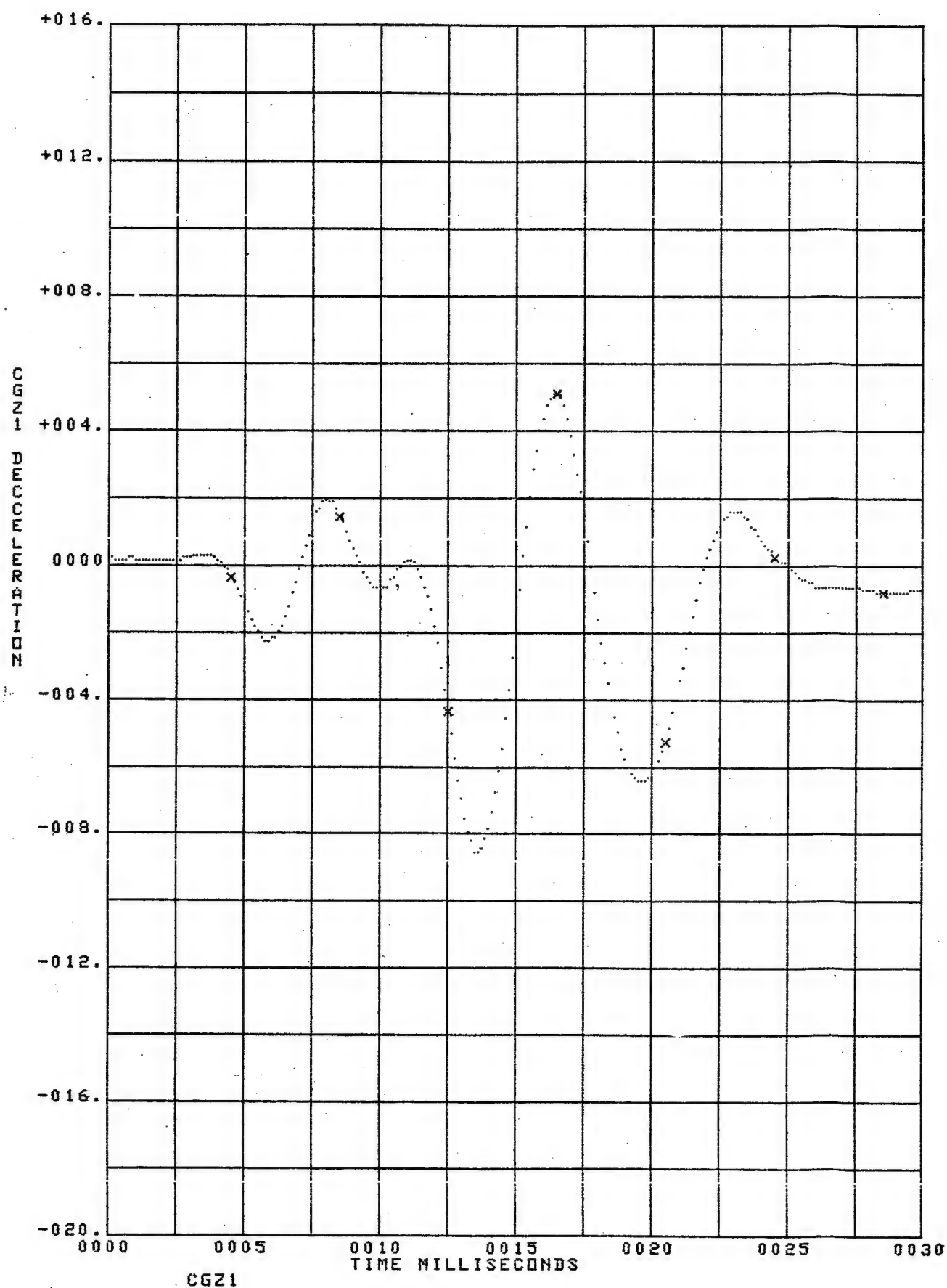
RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C001		
37.5000	+003.2	+003.3	+003.2	+003.2	+003.2	+003.2
38.1250	+003.2	+003.2	+003.3	+003.3	+003.3	+003.3
38.7500	+003.3	+003.5	+003.5	+003.5	+003.5	+003.5
39.3750	+003.5	+003.5	+003.6	+003.6	+003.6	+003.8
40.0000	+003.8	+003.8	+003.8	+003.9	+003.9	+004.0
40.6250	+004.0	+004.0	+004.1	+004.1	+004.1	+004.1
41.2500	+004.1	+004.1	+004.1	+004.1	+004.1	+004.1
41.8750	+004.1	+004.0	+004.0	+004.0	+004.0	+003.9
42.5000	+003.9	+003.9	+003.8	+003.8	+003.8	+003.8
43.1250	+003.7	+003.7	+003.6	+003.6	+003.5	+003.5
43.7500	+003.5	+003.5	+003.3	+003.3	+003.3	+003.2
44.3750	+003.0	+003.0	+002.8	+002.8	+002.8	+002.7
45.0000	+002.6	+002.5	+002.4	+002.3	+002.3	+002.1
45.6250	+002.1	+002.1	+002.0	+001.9	+001.9	+001.8
46.2500	+001.8	+001.7	+001.7	+001.6	+001.6	+001.6
46.8750	+001.5	+001.5	+001.5	+001.4	+001.4	+001.4
47.5000	+001.4	+001.4	+001.4	+001.4	+001.4	+001.3
48.1250	+001.3	+001.3	+001.3	+001.3	+001.3	+001.3
48.7500	+001.3	+001.3	+001.4	+001.4	+001.4	+001.4
49.3750	+001.4	+001.5	+001.5	+001.5	+001.5	+001.6
50.0000	+001.6	+001.6	+001.6	+001.7	+001.7	+001.7
50.6250	+001.7	+001.8	+001.8	+001.8	+001.8	+001.9
51.2500	+002.0	+002.0	+002.0	+002.0	+002.0	+002.1
51.8750	+002.1	+002.1	+002.1	+002.2	+002.2	+002.2
52.5000	+002.2	+002.1	+002.2	+002.2	+002.2	+002.2
53.1250	+002.2	+002.2	+002.2	+002.2	+002.2	+002.3
53.7500	+002.3	+002.3	+002.3	+002.3	+002.3	+002.3
54.3750	+002.3	+002.3	+002.3	+002.4	+002.4	+002.4
55.0000	+002.4	+002.4	+002.4	+002.3	+002.3	+002.4
55.6250	+002.4	+002.4	+002.4	+002.4	+002.4	+002.3
56.2500	+002.3	+002.3	+002.3	+002.3	+002.3	+002.2
56.8750	+002.2	+002.1	+002.1	+002.1	+002.1	+002.0
57.5000	+001.9	+002.0	+001.9	+001.9	+001.9	+001.8
58.1250	+001.8	+001.7	+001.7	+001.6	+001.6	+001.7
58.7500	+001.7	+001.7	+001.6	+001.6	+001.6	+001.7
59.3750	+001.7	+001.7	+001.6	+001.6	+001.6	+313.4

AMAX= +051.3 AT T=012.2

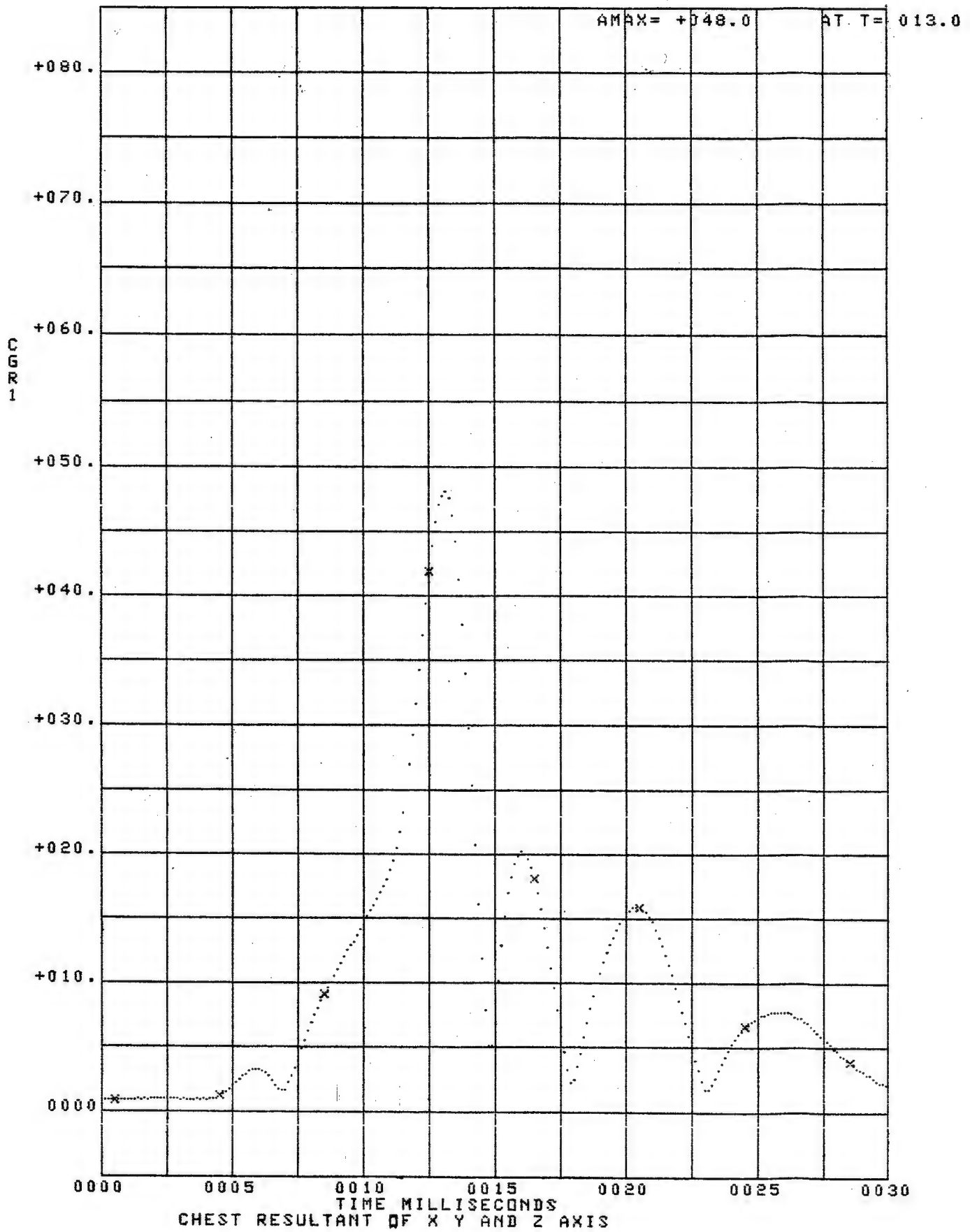
Chest Impact
Dummy No. 31, Run No. 5







CHEST IMPACT
TEST C002



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C002

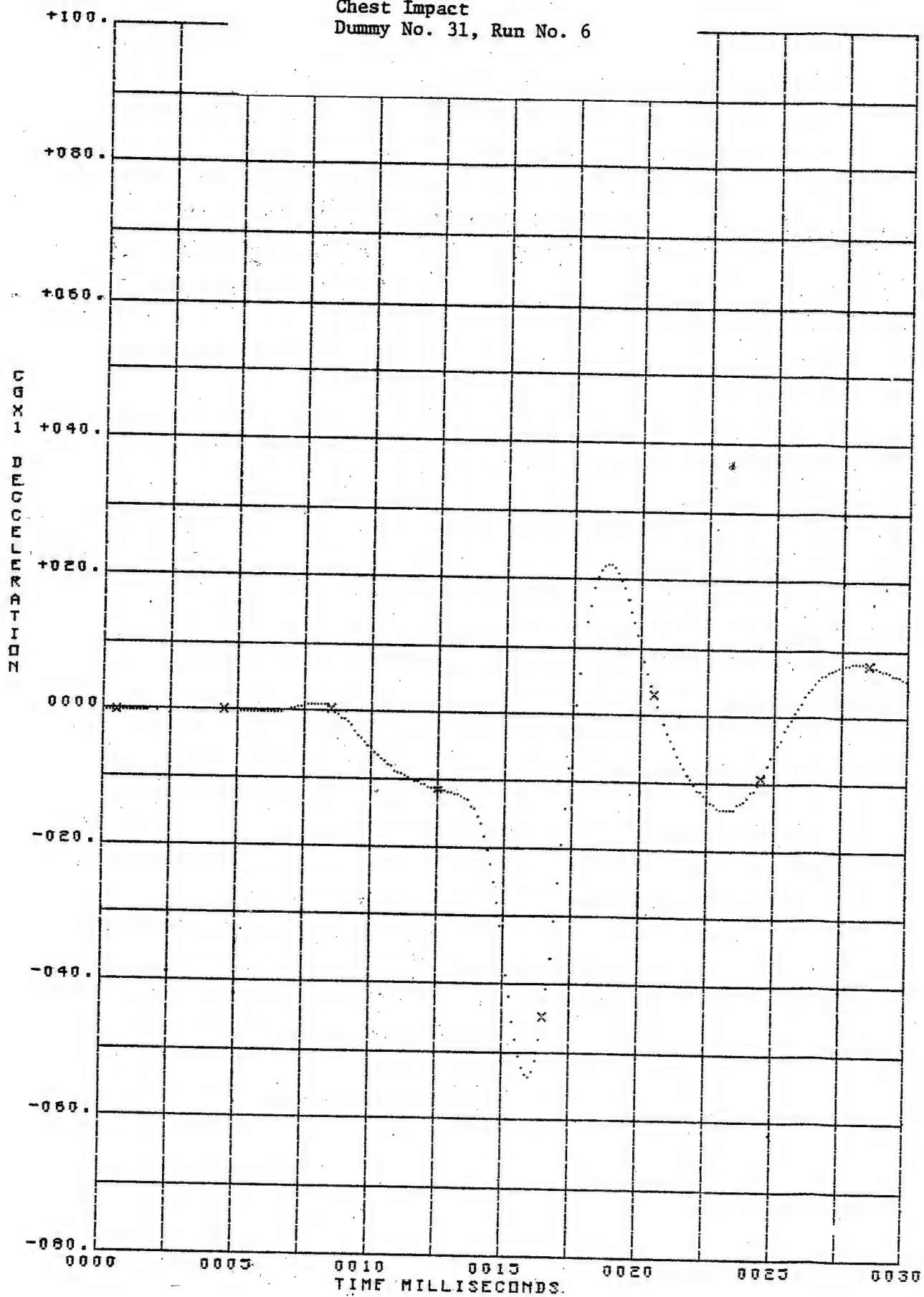
TIME					
0.0000	+000.3	+000.4	+000.4	+000.4	+000.4
0.6250	+000.3	+000.3	+000.4	+000.4	+000.4
1.2500	+000.4	+000.4	+000.4	+000.4	+000.5
1.8750	+000.5	+000.5	+000.5	+000.5	+000.5
2.5000	+000.5	+000.4	+000.4	+000.4	+000.5
3.1250	+000.4	+000.4	+000.4	+000.4	+000.3
3.7500	+000.4	+000.4	+000.5	+000.5	+000.5
4.3750	+000.8	+000.9	+001.0	+001.2	+001.5
5.0000	+001.8	+002.0	+002.2	+002.4	+002.6
5.6250	+002.8	+002.8	+002.7	+002.7	+002.5
6.2500	+002.2	+001.9	+001.6	+001.3	+001.2
6.8750	+001.1	+001.7	+002.2	+002.9	+003.6
7.5000	+004.4	+005.0	+005.8	+006.3	+007.0
8.1250	+007.5	+008.1	+008.6	+009.1	+009.5
8.7500	+010.0	+010.5	+011.0	+011.4	+011.9
9.3750	+012.3	+012.6	+013.2	+013.6	+014.1
10.0000	+014.6	+015.1	+015.5	+015.9	+016.4
10.6250	+017.0	+017.5	+018.1	+018.9	+019.9
11.2500	+021.2	+022.7	+024.5	+026.5	+028.7
11.8750	+031.2	+033.9	+036.5	+039.1	+041.6
12.5000	+043.7	+045.5	+046.9	+047.6	+048.0
13.1250	+047.5	+046.1	+044.0	+041.0	+037.5
13.7500	+033.6	+029.3	+024.8	+020.2	+015.7
14.3750	+011.3	+007.4	+004.7	+004.7	+007.0
15.0000	+009.7	+012.4	+014.6	+016.5	+017.7
15.6250	+018.7	+019.4	+019.7	+019.5	+019.1
16.2500	+018.5	+017.6	+016.5	+015.1	+013.8
16.8750	+012.2	+010.6	+009.1	+007.4	+005.8
17.5000	+004.1	+002.7	+001.7	+002.0	+003.0
18.1250	+004.1	+005.3	+006.4	+007.5	+008.5
18.7500	+009.5	+010.3	+011.1	+011.8	+012.4
19.3750	+013.0	+013.6	+014.1	+014.5	+014.9
20.0000	+015.1	+015.3	+015.3	+015.3	+015.1
20.6250	+015.0	+014.6	+014.2	+013.6	+013.0
21.2500	+012.4	+011.6	+010.8	+010.1	+009.1
21.8750	+008.1	+007.2	+006.3	+005.4	+004.5
22.5000	+003.5	+002.7	+001.9	+001.3	+001.3
23.1250	+001.6	+002.1	+002.7	+003.3	+003.8
23.7500	+004.3	+004.7	+005.1	+005.5	+005.8
24.3750	+006.1	+006.3	+006.5	+006.7	+006.8
25.0000	+007.0	+007.1	+007.2	+007.2	+007.2
25.6250	+007.2	+007.2	+007.2	+007.2	+007.1
26.2500	+006.9	+006.8	+006.8	+006.5	+006.3
26.8750	+006.1	+005.8	+005.7	+005.4	+005.2
27.5000	+005.0	+004.7	+004.4	+004.2	+003.9
28.1250	+003.8	+003.5	+003.4	+003.2	+002.9
28.7500	+002.8	+002.6	+002.4	+002.3	+002.1
29.3750	+001.9	+001.8	+001.7	+001.7	+001.6
30.0000	+001.6	+001.6	+001.6	+001.6	+001.7
30.6250	+001.8	+001.8	+001.8	+002.0	+002.0
31.2500	+002.0	+002.2	+002.3	+002.5	+002.5
31.8750	+002.6	+002.6	+002.7	+002.8	+002.9
32.5000	+002.9	+003.0	+003.1	+003.2	+003.3
33.1250	+003.4	+003.4	+003.6	+003.6	+003.8
33.7500	+003.8	+003.9	+004.1	+004.2	+004.3
34.3750	+004.4	+004.4	+004.4	+004.4	+004.5
35.0000	+004.5	+004.5	+004.6	+004.6	+004.6
35.6250	+004.6	+004.6	+004.6	+004.5	+004.5
36.2500	+004.5	+004.5	+004.5	+004.5	+004.5
36.8750	+004.5	+004.5	+004.4	+004.4	+004.4

RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C002		
37.5000	+004.4	+004.5	+004.5	+004.6	+004.5	
38.1250	+004.5	+004.6	+004.6	+004.6	+004.7	
38.7500	+004.7	+004.7	+004.8	+004.8	+004.8	
39.3750	+004.8	+004.8	+004.8	+004.8	+004.7	
40.0000	+004.7	+004.7	+004.7	+004.6	+004.6	
40.6250	+004.5	+004.5	+004.4	+004.4	+004.3	
41.2500	+004.3	+004.3	+004.1	+004.1	+004.0	
41.8750	+004.0	+003.9	+003.8	+003.7	+003.7	
42.5000	+003.6	+003.5	+003.4	+003.4	+003.3	
43.1250	+003.2	+003.1	+003.0	+002.9	+002.9	
43.7500	+002.8	+002.8	+002.7	+002.5	+002.5	
44.3750	+002.4	+002.4	+002.3	+002.3	+002.2	
45.0000	+002.2	+002.1	+002.1	+002.1	+002.0	
45.6250	+002.1	+001.9	+002.0	+002.0	+002.0	
46.2500	+002.0	+002.0	+002.0	+002.0	+002.0	
46.8750	+002.0	+002.0	+002.1	+002.1	+002.1	
47.5000	+002.1	+002.1	+002.1	+002.2	+002.2	
48.1250	+002.2	+002.2	+002.2	+002.1	+002.2	
48.7500	+002.2	+002.1	+002.2	+002.1	+002.1	
49.3750	+002.1	+002.1	+002.1	+002.1	+002.1	
50.0000	+002.1	+002.1	+002.1	+002.1	+002.1	
50.6250	+002.1	+002.1	+002.1	+002.1	+002.0	
51.2500	+002.1	+002.0	+002.0	+002.0	+002.0	
51.8750	+002.0	+002.0	+002.0	+002.0	+002.0	
52.5000	+002.0	+002.0	+002.1	+002.0	+002.1	
53.1250	+002.1	+002.1	+002.1	+002.1	+002.1	
53.7500	+002.1	+002.1	+002.2	+002.2	+002.2	
54.3750	+002.2	+002.1	+002.1	+002.1	+002.1	
55.0000	+002.2	+002.2	+002.2	+002.1	+002.1	
55.6250	+002.1	+002.2	+002.2	+002.2	+002.2	
56.2500	+002.2	+002.2	+002.2	+002.2	+002.2	
56.8750	+002.2	+002.2	+002.1	+002.1	+002.1	
57.5000	+002.1	+002.1	+002.1	+002.1	+002.0	
58.1250	+002.0	+002.0	+002.0	+002.0	+002.0	
58.7500	+002.0	+002.0	+002.0	+002.0	+002.0	
59.3750	+001.9	+001.9	+002.0	+002.0	+313.4	

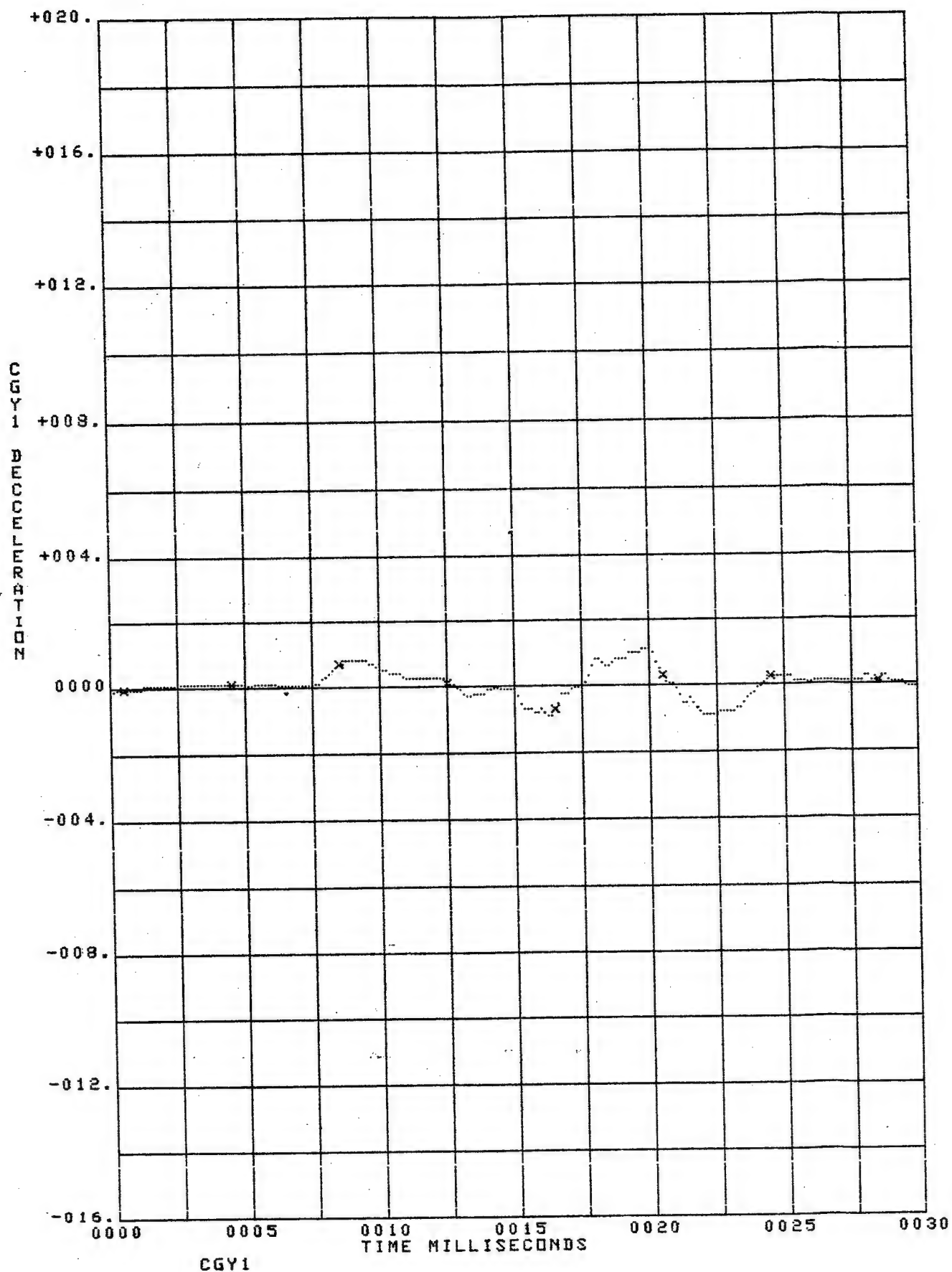
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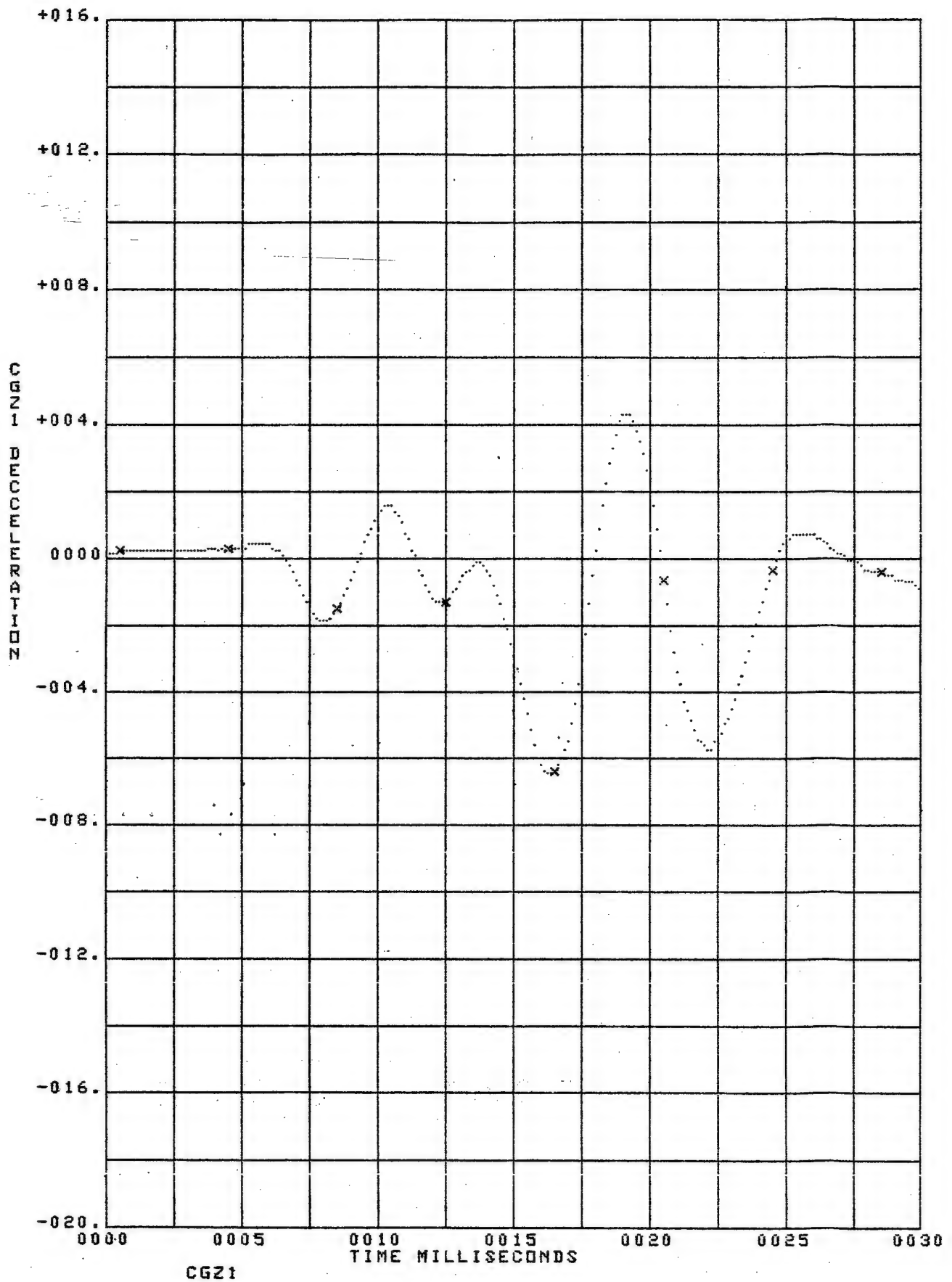
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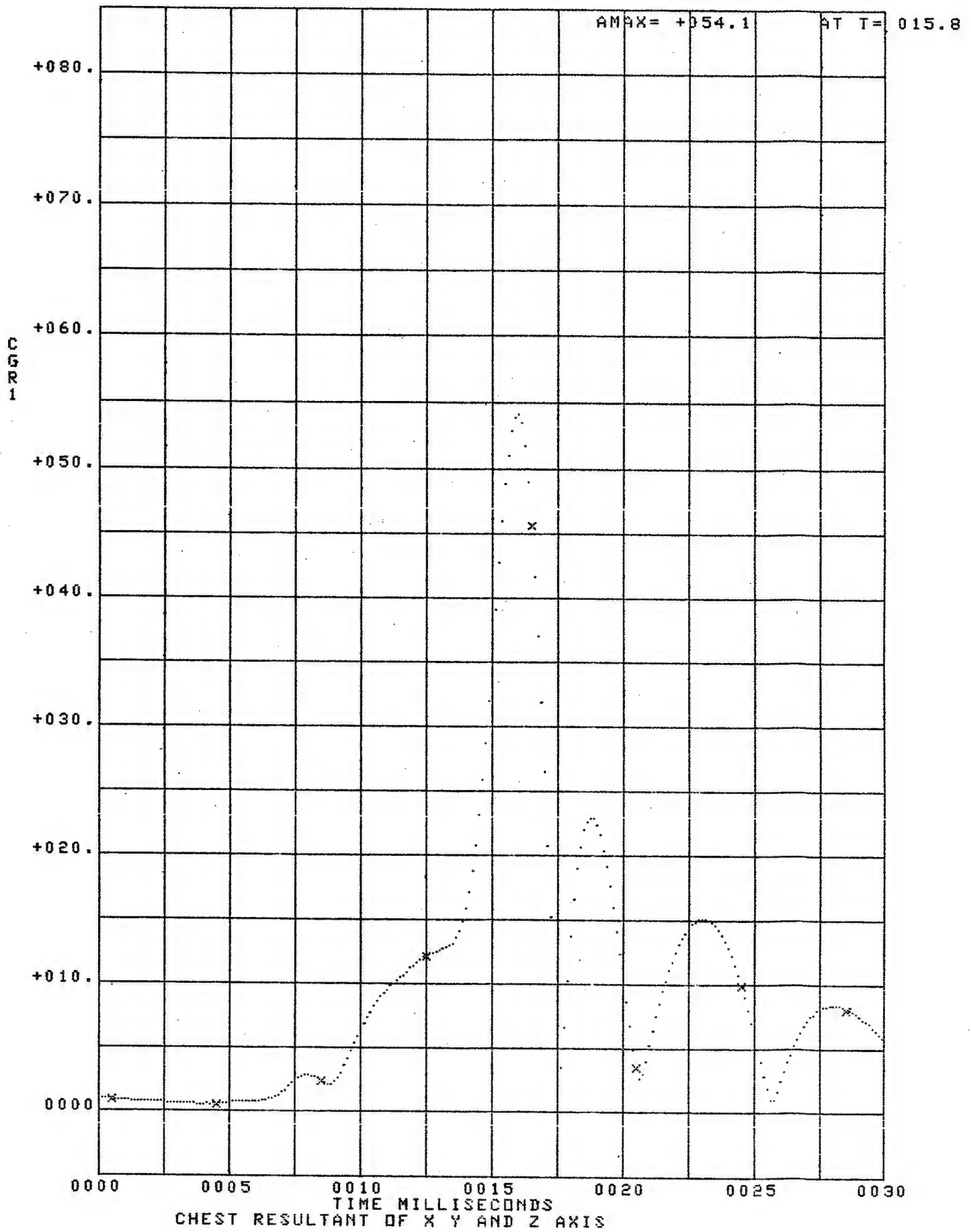
Chest Impact
Dummy No. 31, Run No. 6



CHEST IMPACT
TEST C003







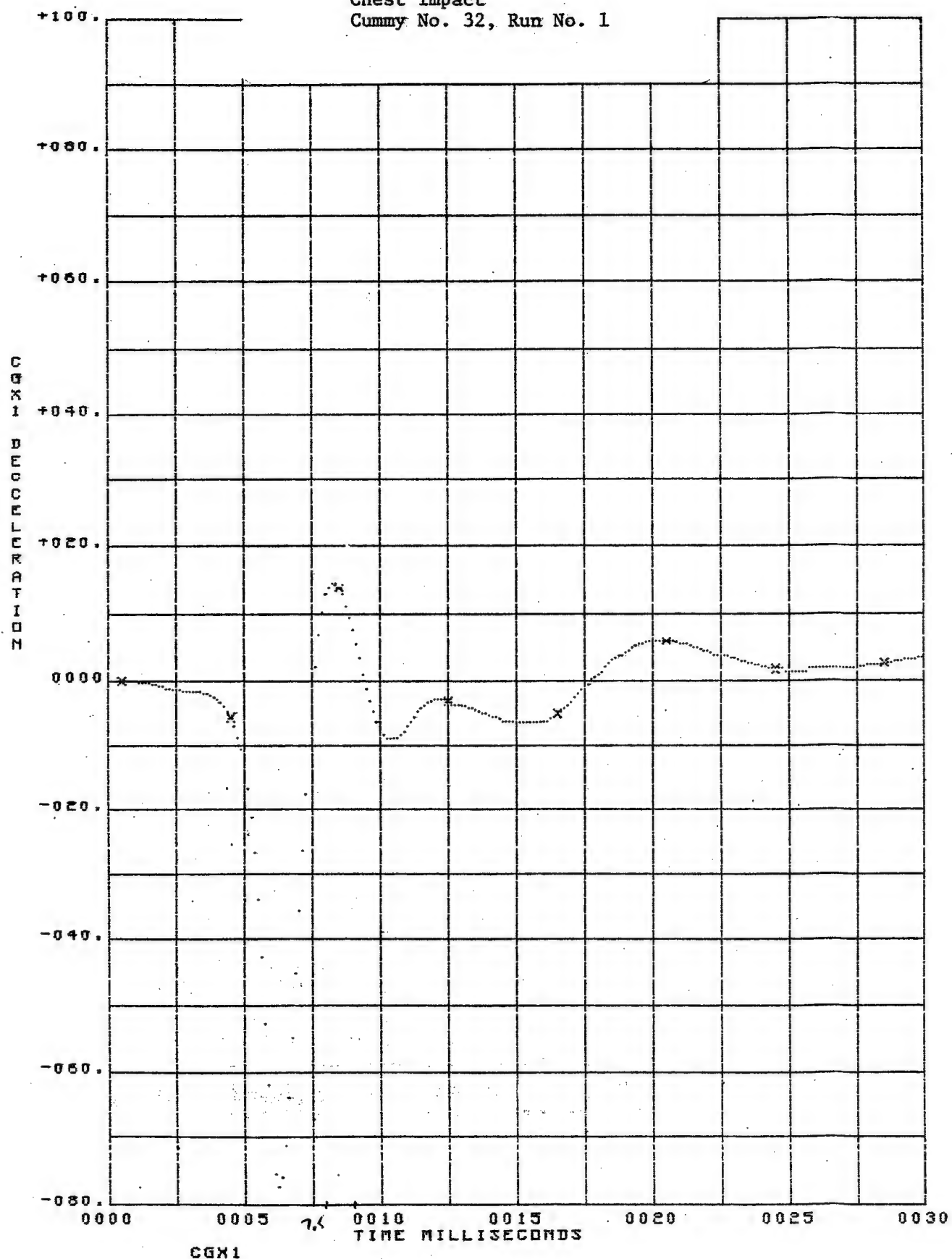
RESULTANT (CGR1) BF CGX1 CGY1 CGZ1 C003

TIME					
0.0000	+000.5	+000.4	+000.4	+000.4	+000.3
0.6250	+000.3	+000.3	+000.3	+000.3	+000.3
1.2500	+000.3	+000.3	+000.3	+000.2	+000.2
1.8750	+000.3	+000.2	+000.2	+000.2	+000.2
2.5000	+000.2	+000.2	+000.2	+000.2	+000.2
3.1250	+000.1	+000.2	+000.1	+000.1	+000.0
3.7500	+000.0	+000.0	+000.2	+000.0	+000.1
4.3750	+000.0	+000.1	+000.1	+000.1	+000.1
5.0000	+000.3	+000.3	+000.2	+000.3	+000.3
5.6250	+000.3	+000.3	+000.3	+000.3	+000.3
6.2500	+000.3	+000.4	+000.5	+000.6	+000.7
6.8750	+001.0	+001.2	+001.5	+001.7	+001.9
7.5000	+002.1	+002.2	+002.3	+002.3	+002.3
8.1250	+002.2	+002.1	+001.9	+001.8	+001.7
8.7500	+001.7	+001.8	+002.1	+002.5	+003.1
9.3750	+003.7	+004.2	+004.9	+005.4	+005.9
10.0000	+006.3	+006.8	+007.3	+007.7	+008.1
10.6250	+008.5	+008.7	+009.0	+009.3	+009.5
11.2500	+009.7	+010.0	+010.2	+010.4	+010.7
11.8750	+010.9	+011.1	+011.3	+011.5	+011.6
12.5000	+011.8	+011.9	+012.0	+012.0	+012.2
13.1250	+012.3	+012.5	+012.6	+013.1	+013.6
13.7500	+014.3	+015.3	+016.6	+018.2	+020.2
14.3750	+022.6	+025.3	+028.2	+031.5	+035.2
15.0000	+038.9	+042.5	+045.8	+048.7	+050.9
15.6250	+052.8	+053.8	+054.1	+053.4	+051.6
16.2500	+048.9	+045.5	+041.3	+036.6	+031.4
16.8750	+025.9	+020.2	+014.8	+009.4	+004.8
17.5000	+003.0	+006.1	+009.8	+013.3	+016.2
18.1250	+018.4	+020.1	+021.4	+022.1	+022.3
18.7500	+022.3	+021.9	+021.0	+019.8	+018.6
19.3750	+017.1	+015.4	+013.6	+011.8	+010.0
20.0000	+008.1	+006.2	+004.4	+002.9	+002.2
20.6250	+002.5	+003.5	+004.8	+005.9	+007.0
21.2500	+008.0	+009.0	+009.8	+010.6	+011.3
21.8750	+011.9	+012.6	+013.1	+013.5	+014.0
22.5000	+014.2	+014.4	+014.6	+014.6	+014.6
23.1250	+014.5	+014.3	+014.1	+013.7	+013.4
23.7500	+012.9	+012.3	+011.7	+011.0	+010.3
24.3750	+009.4	+008.5	+007.5	+006.5	+005.6
25.0000	+004.5	+003.5	+002.4	+001.4	+000.5
25.6250	+000.4	+001.2	+002.0	+002.8	+003.5
26.2500	+004.1	+004.8	+005.3	+005.7	+006.2
26.8750	+006.7	+007.0	+007.2	+007.5	+007.5
27.5000	+007.7	+007.7	+007.9	+007.9	+007.9
28.1250	+007.9	+007.7	+007.5	+007.5	+007.4
28.7500	+007.2	+007.0	+006.8	+006.6	+006.5
29.3750	+006.1	+005.9	+005.6	+005.4	+005.2
30.0000	+004.8	+004.6	+004.3	+004.1	+003.8
30.6250	+003.7	+003.5	+003.3	+003.2	+003.0
31.2500	+002.8	+002.8	+002.7	+002.6	+002.5
31.8750	+002.5	+002.4	+002.3	+002.3	+002.3
32.5000	+002.2	+002.2	+002.2	+002.2	+002.1
33.1250	+002.3	+002.4	+002.5	+002.6	+002.7
33.7500	+002.8	+003.0	+003.1	+003.3	+003.6
34.3750	+003.7	+003.9	+004.1	+004.2	+004.5
35.0000	+004.6	+004.7	+005.0	+005.0	+005.0
35.6250	+005.0	+005.1	+005.1	+005.1	+005.1
36.2500	+005.1	+005.0	+005.0	+005.0	+005.0
36.8750	+004.9	+004.9	+004.8	+004.8	+004.8

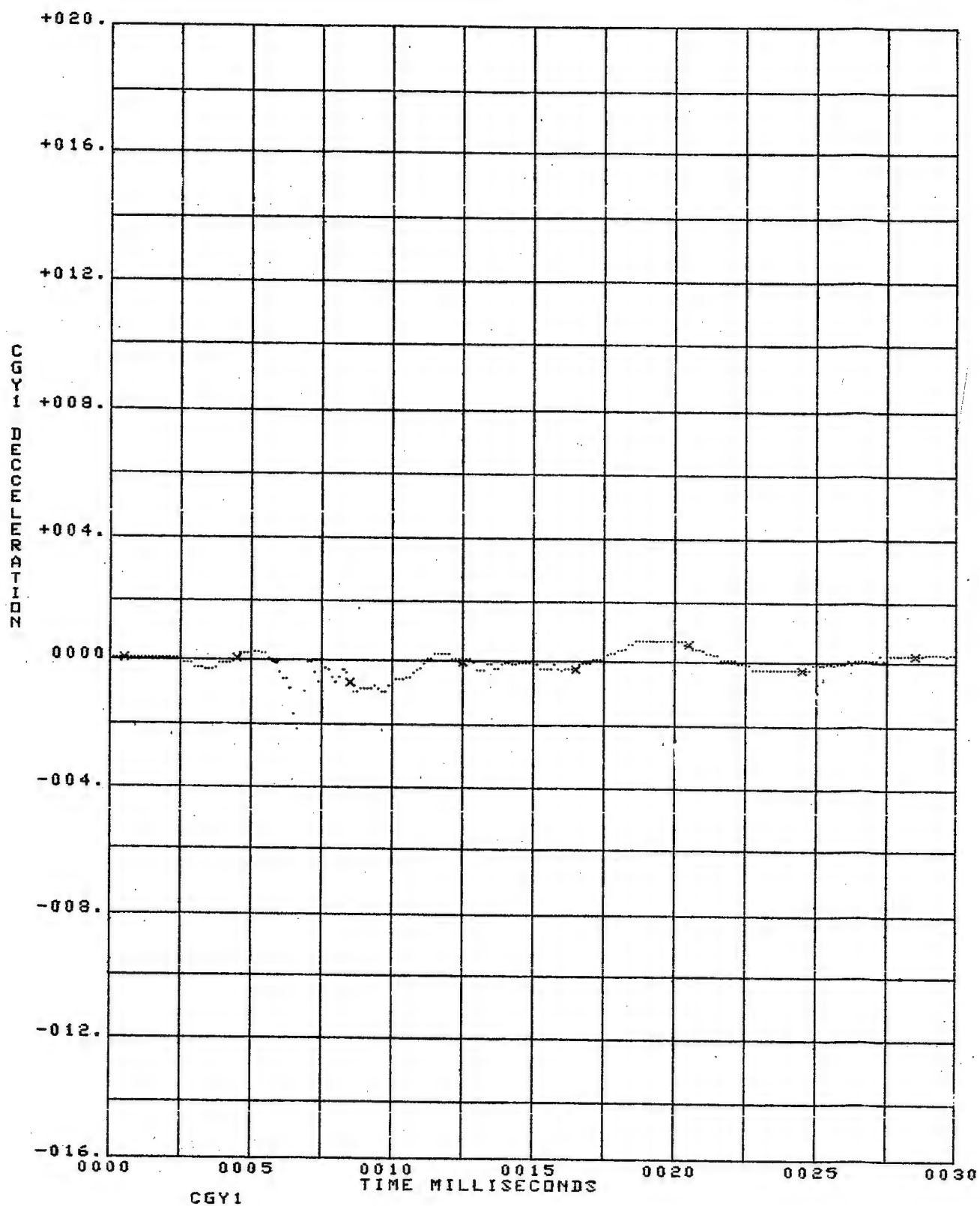
RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C003		
37.5000	+004.7	+004.7	+004.7	+004.7	+004.7	+004.7
38.1250	+004.7	+004.7	+004.6	+004.6	+004.6	+004.5
38.7500	+004.5	+004.5	+004.5	+004.5	+004.5	+004.5
39.3750	+004.5	+004.5	+004.4	+004.4	+004.4	+004.4
40.0000	+004.4	+004.4	+004.4	+004.4	+004.4	+004.4
40.6250	+004.2	+004.2	+004.2	+004.2	+004.2	+004.2
41.2500	+004.1	+004.1	+004.1	+004.1	+004.1	+004.0
41.8750	+003.9	+003.9	+003.9	+003.9	+003.9	+003.8
42.5000	+003.9	+003.8	+003.8	+003.8	+003.9	+003.9
43.1250	+003.9	+003.9	+003.9	+003.9	+003.9	+003.9
43.7500	+003.9	+003.9	+003.9	+003.9	+003.9	+003.8
44.3750	+003.8	+003.8	+003.8	+003.8	+003.8	+003.8
45.0000	+003.8	+003.8	+003.8	+003.8	+003.8	+003.6
45.6250	+003.6	+003.6	+003.6	+003.6	+003.6	+003.5
46.2500	+003.5	+003.4	+003.4	+003.3	+003.3	+003.3
46.8750	+003.2	+003.2	+003.2	+003.0	+003.0	+003.0
47.5000	+003.0	+003.0	+003.0	+003.0	+003.0	+002.8
48.1250	+002.8	+002.8	+002.8	+002.8	+002.8	+002.7
48.7500	+002.5	+002.5	+002.5	+002.5	+002.5	+002.4
49.3750	+002.3	+002.3	+002.2	+002.2	+002.2	+002.1
50.0000	+002.1	+001.9	+001.9	+001.9	+001.9	+001.9
50.6250	+001.8	+001.8	+001.8	+001.7	+001.7	+001.7
51.2500	+001.6	+001.7	+001.7	+001.7	+001.7	+001.6
51.8750	+001.6	+001.6	+001.8	+001.7	+001.7	+001.7
52.5000	+001.7	+001.6	+001.7	+001.7	+001.7	+001.8
53.1250	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
53.7500	+001.9	+001.9	+001.9	+001.9	+001.9	+001.9
54.3750	+001.9	+002.0	+002.0	+002.0	+002.0	+002.0
55.0000	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
55.6250	+002.0	+002.0	+002.0	+002.0	+002.0	+002.1
56.2500	+002.1	+002.1	+002.1	+002.1	+002.1	+002.2
56.8750	+002.2	+002.3	+002.3	+002.3	+002.3	+002.4
57.5000	+002.4	+002.4	+002.4	+002.4	+002.4	+002.4
58.1250	+002.5	+002.5	+002.5	+002.4	+002.4	+002.4
58.7500	+002.4	+002.3	+002.4	+002.3	+002.3	+002.3
59.3750	+002.4	+002.2	+002.2	+002.2	+002.2	+313.4

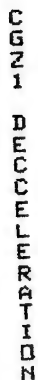
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Chest Impact
Cummy No. 32, Run No. 1

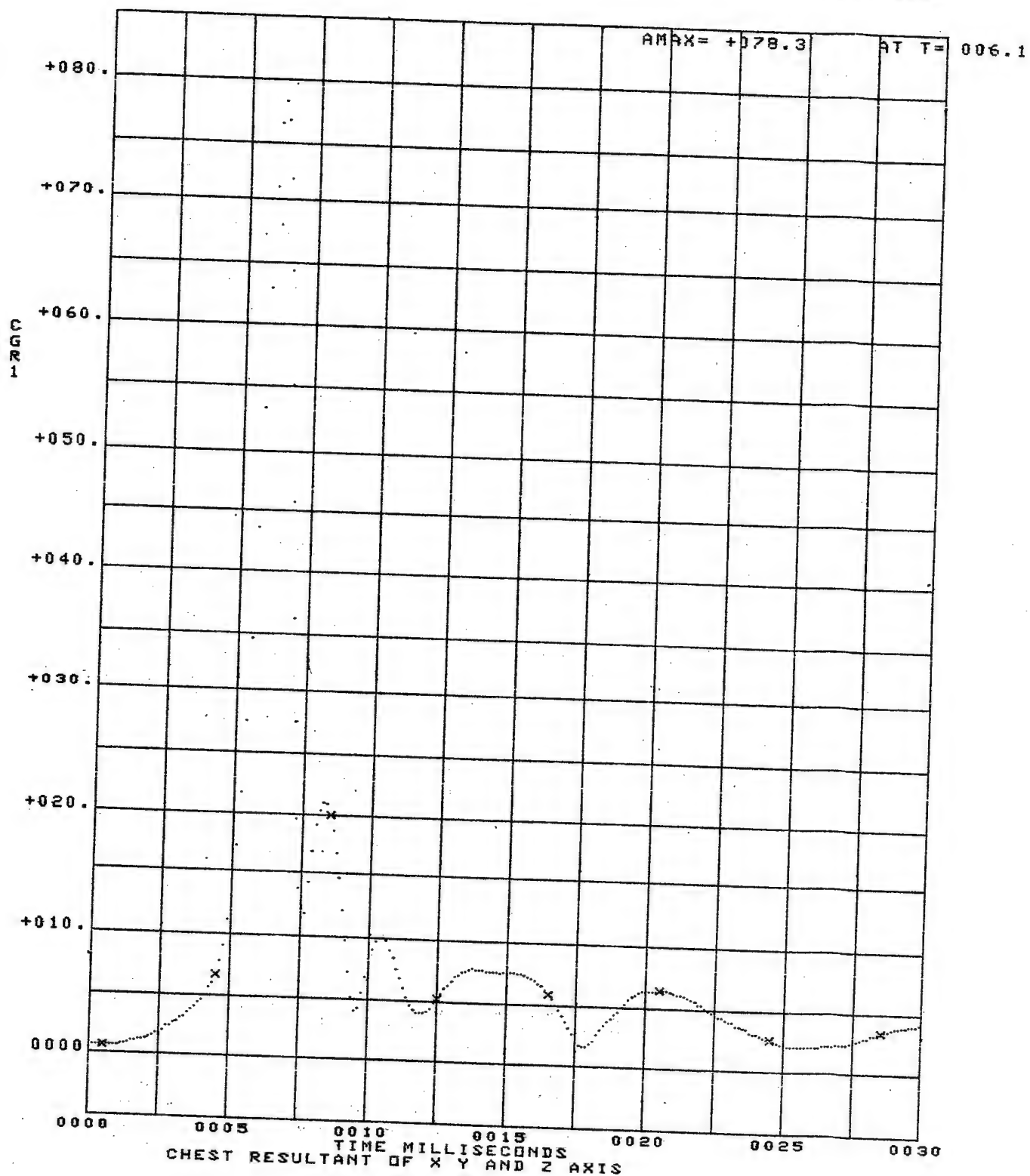


CHEST IMPACT
TEST C003





CHEST IMPACT
TEST C003



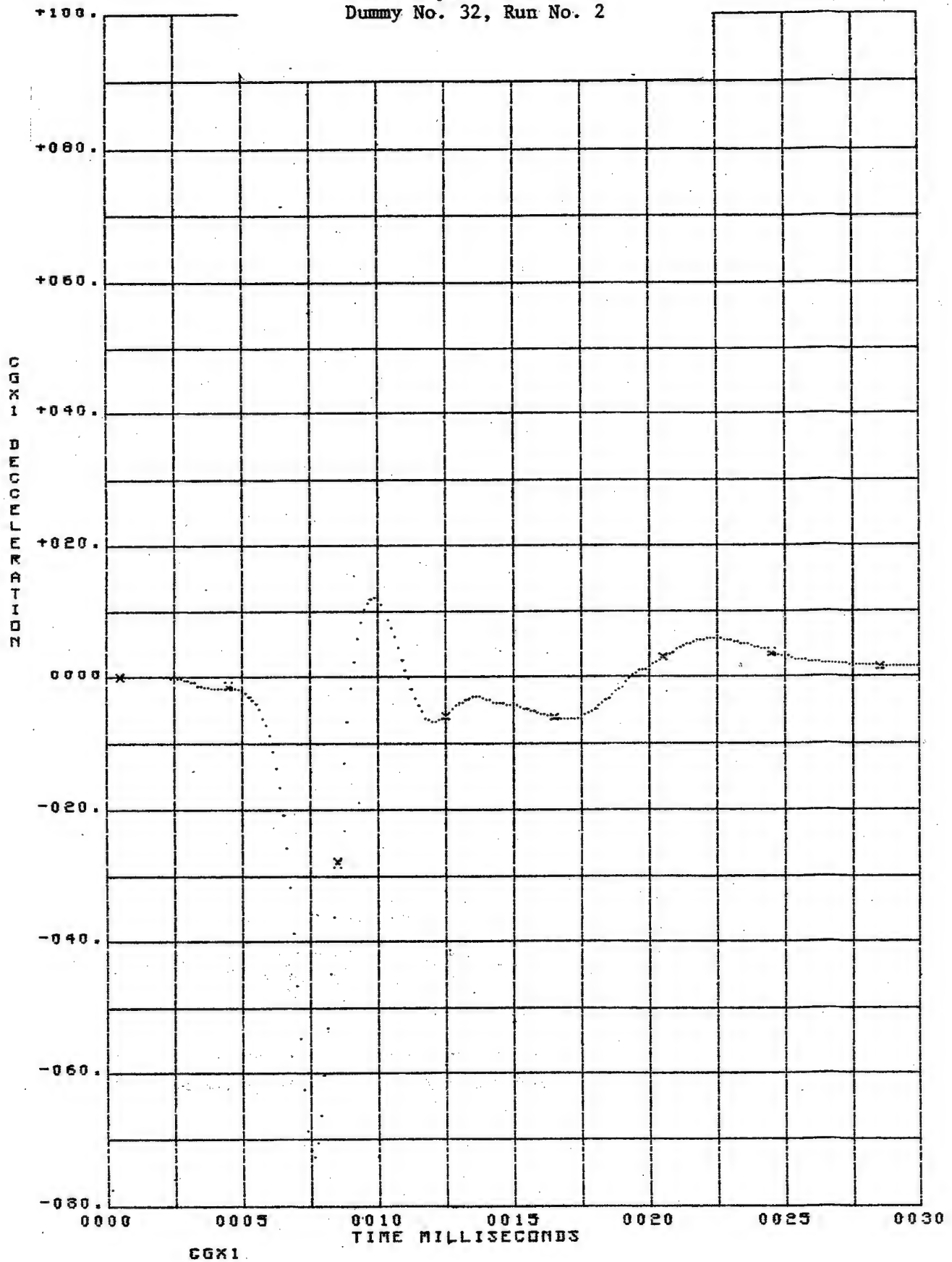
RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C003

TIME					
0.0000	+000.1	+000.1	+000.2	+000.2	+000.2
0.6250	+000.2	+000.2	+000.2	+000.3	+000.3
1.2500	+000.3	+000.4	+000.5	+000.6	+000.7
1.8750	+000.7	+000.9	+001.0	+001.2	+001.4
2.5000	+001.5	+001.8	+001.9	+002.2	+002.3
3.1250	+002.5	+002.7	+003.0	+003.2	+003.6
3.7500	+003.9	+004.2	+004.6	+005.1	+005.5
4.3750	+006.3	+007.3	+008.6	+010.6	+013.2
5.0000	+016.7	+021.2	+027.0	+034.3	+043.3
5.6250	+053.3	+062.9	+071.0	+076.5	+078.3
6.2500	+076.8	+071.7	+064.3	+055.1	+045.5
6.8750	+035.3	+027.0	+019.1	+013.3	+010.5
7.5000	+011.3	+013.7	+016.4	+018.6	+019.8
8.1250	+020.4	+020.3	+019.5	+019.1	+016.3
8.7500	+014.0	+011.6	+009.2	+006.7	+004.7
9.3750	+003.4	+003.8	+003.0	+006.4	+007.6
10.0000	+008.6	+009.2	+009.5	+009.5	+009.3
10.6250	+008.6	+008.0	+007.2	+006.3	+005.5
11.2500	+004.8	+004.2	+003.8	+003.6	+003.5
11.8750	+003.5	+003.6	+003.9	+004.4	+004.8
12.5000	+005.1	+005.6	+005.9	+006.3	+006.7
13.1250	+006.8	+007.0	+007.1	+007.3	+007.3
13.7500	+007.3	+007.3	+007.3	+007.2	+007.2
14.3750	+007.2	+007.1	+007.1	+007.2	+007.1
15.0000	+007.1	+007.2	+007.1	+007.0	+006.8
15.6250	+006.7	+006.6	+006.4	+006.2	+006.1
16.2500	+005.7	+005.4	+005.0	+004.6	+004.1
16.8750	+003.6	+003.1	+002.7	+002.1	+001.8
17.5000	+001.3	+001.2	+001.1	+001.4	+001.7
18.1250	+002.1	+002.5	+002.9	+003.2	+003.5
18.7500	+003.9	+004.2	+004.5	+004.8	+005.1
19.3750	+005.3	+005.5	+005.7	+005.8	+005.8
20.0000	+005.9	+005.9	+005.9	+005.9	+006.0
20.6250	+005.9	+005.7	+005.7	+005.6	+005.6
21.2500	+005.4	+005.3	+005.3	+005.1	+004.9
21.8750	+004.8	+004.6	+004.4	+004.3	+004.1
22.5000	+003.9	+003.9	+003.6	+003.5	+003.5
23.1250	+003.1	+003.1	+002.9	+002.8	+002.6
23.7500	+002.5	+002.5	+002.4	+002.3	+002.1
24.3750	+002.1	+002.0	+001.9	+001.8	+001.8
25.0000	+001.7	+001.7	+001.7	+001.6	+001.6
25.6250	+001.6	+001.6	+001.6	+001.6	+001.6
26.2500	+001.7	+001.8	+001.8	+001.8	+001.8
26.8750	+001.9	+001.9	+001.9	+002.0	+002.1
27.5000	+002.2	+002.2	+002.4	+002.4	+002.6
28.1250	+002.6	+002.7	+002.9	+003.0	+003.0
28.7500	+003.1	+003.2	+003.3	+003.3	+003.3
29.3750	+003.5	+003.5	+003.5	+003.6	+003.6
30.0000	+003.6	+003.6	+003.6	+003.6	+003.7
30.6250	+003.7	+003.7	+003.6	+003.6	+003.6
31.2500	+003.7	+003.7	+003.6	+003.7	+003.7
31.8750	+003.7	+003.7	+003.7	+003.7	+003.7
32.5000	+003.7	+003.7	+003.7	+003.7	+003.7
33.1250	+003.7	+003.7	+003.7	+003.7	+003.7
33.7500	+003.7	+003.9	+003.9	+003.9	+003.9
34.3750	+003.9	+004.0	+004.0	+004.0	+004.0
35.0000	+004.0	+004.0	+004.0	+004.0	+004.0
35.6250	+004.0	+004.0	+004.0	+004.0	+003.9
36.2500	+003.9	+003.9	+003.9	+003.8	+003.8
36.8750	+003.8	+003.7	+003.7	+003.6	+003.6

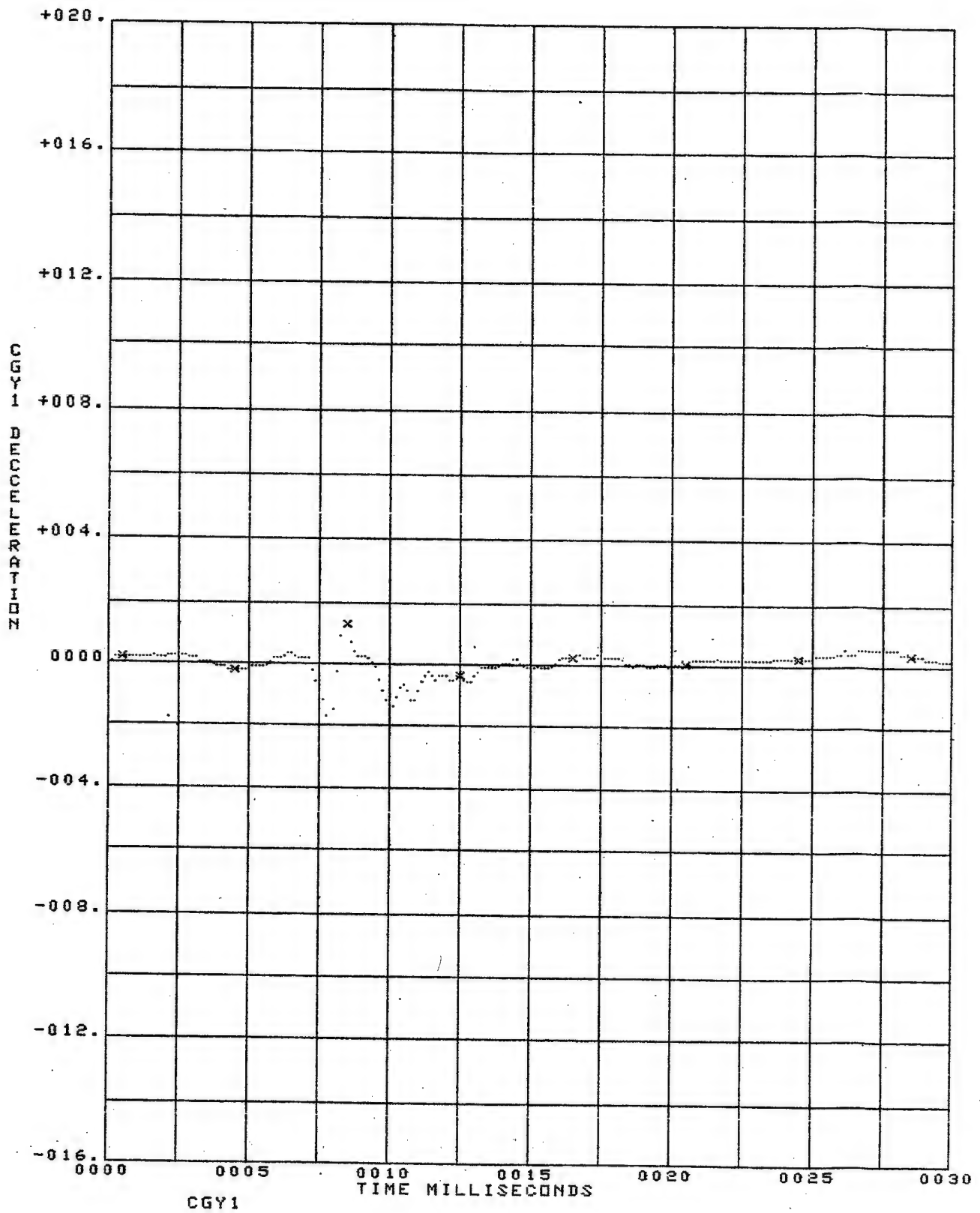
RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C003		
37.5000	+003.5	+003.5	+003.5	+003.5	+003.5	+003.5
38.1250	+003.5	+003.3	+003.3	+003.3	+003.2	+003.2
38.7500	+003.2	+003.2	+003.0	+003.0	+003.0	+003.0
39.3750	+002.8	+002.8	+002.7	+002.7	+002.7	+002.7
40.0000	+002.5	+002.5	+002.5	+002.5	+002.4	+002.2
40.6250	+002.2	+002.1	+002.1	+002.1	+002.1	+002.1
41.2500	+002.0	+002.0	+001.9	+001.9	+001.9	+001.9
41.8750	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
42.5000	+001.8	+001.8	+001.8	+001.8	+001.9	+001.9
43.1250	+001.9	+001.9	+001.9	+001.9	+001.9	+002.0
43.7500	+002.0	+002.0	+002.1	+002.1	+002.1	+002.1
44.3750	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
45.0000	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
45.6250	+002.1	+002.2	+002.2	+002.2	+002.2	+002.1
46.2500	+002.1	+002.1	+002.1	+002.0	+002.0	+002.0
46.8750	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
47.5000	+002.0	+002.0	+002.0	+002.0	+001.9	+001.9
48.1250	+001.9	+001.9	+001.9	+001.9	+001.9	+002.0
48.7500	+001.9	+002.0	+002.0	+002.0	+002.0	+002.0
49.3750	+001.9	+001.9	+002.0	+002.0	+002.0	+001.9
50.0000	+001.9	+002.0	+002.0	+002.0	+002.0	+002.0
50.6250	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
51.2500	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
51.8750	+002.2	+002.2	+002.2	+002.2	+002.2	+002.2
52.5000	+002.2	+002.1	+002.2	+002.2	+002.2	+002.2
53.1250	+002.2	+002.2	+002.2	+002.2	+002.2	+002.2
53.7500	+002.2	+002.2	+002.2	+002.2	+002.2	+002.1
54.3750	+002.1	+002.1	+002.0	+002.0	+002.0	+002.1
55.0000	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
55.6250	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
56.2500	+002.0	+002.0	+002.0	+002.0	+001.9	+001.8
56.8750	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
57.5000	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
58.1250	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
58.7500	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
59.3750	+001.8	+001.8	+001.8	+001.8	+001.8	+313.4

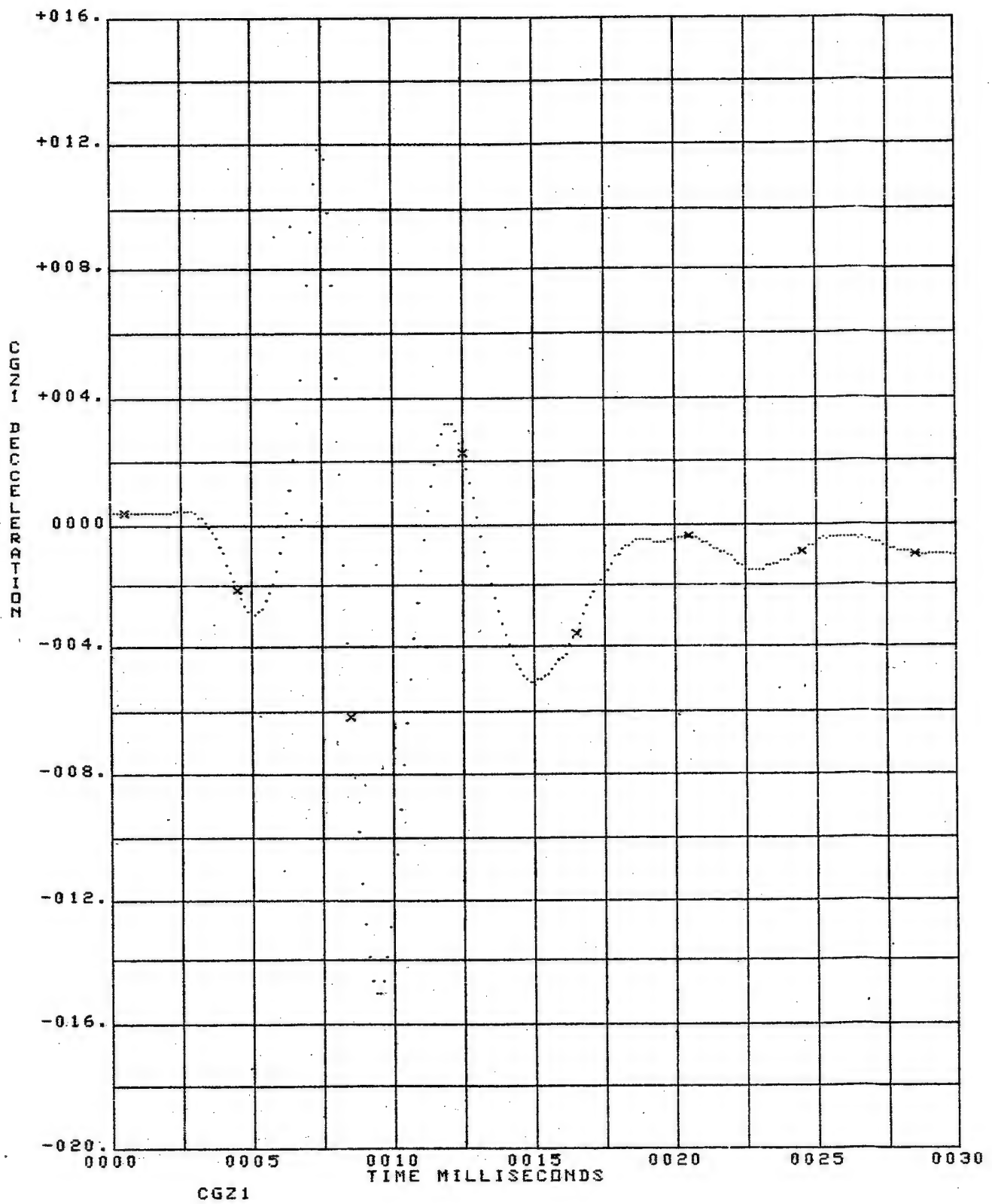
AMAX= +078.3 AT T=006.1

Chest Impact
Dummy No. 32, Run No. 2

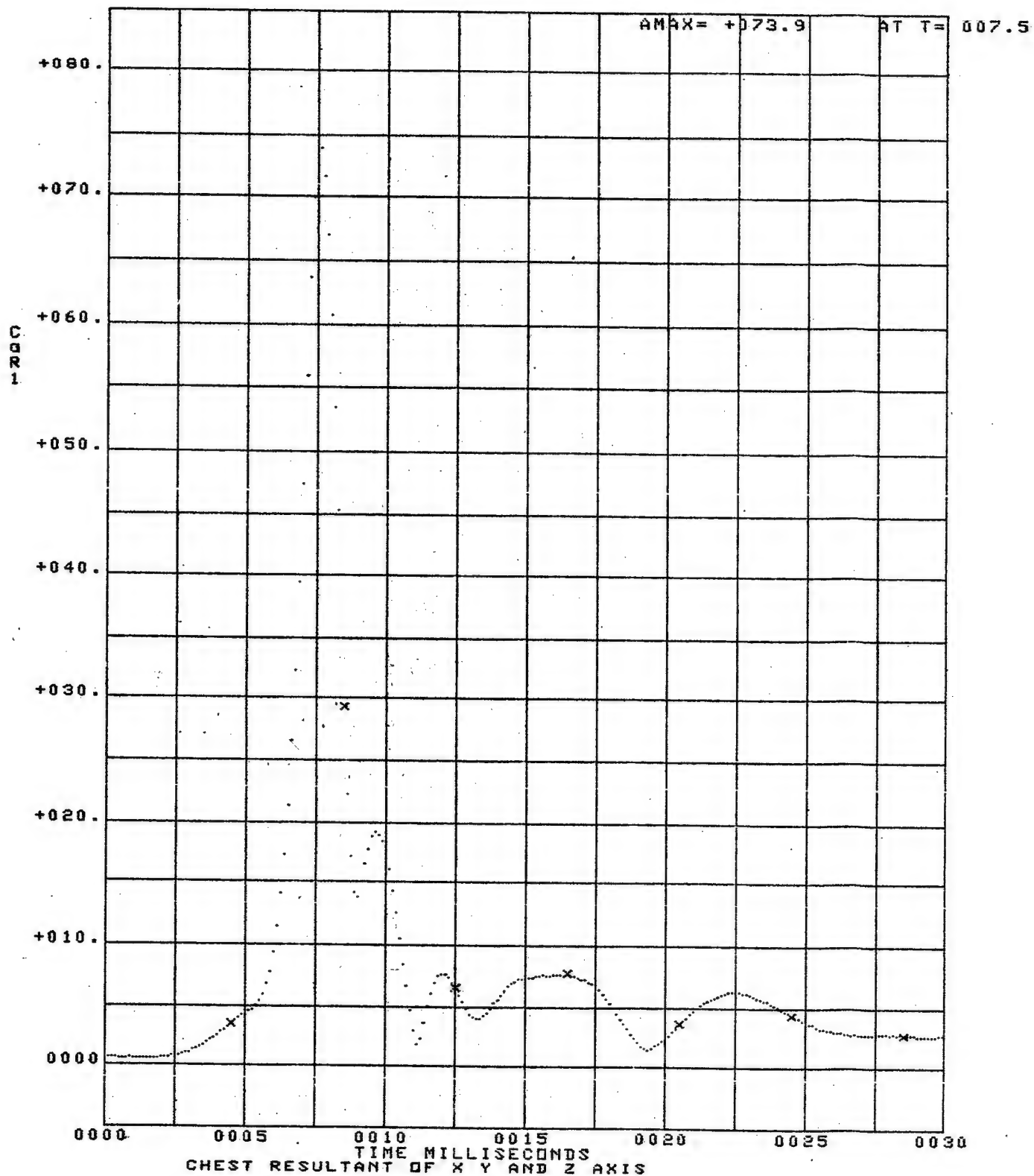


CHEST IMPACT
TEST C004





CHEST IMPACT
TEST C004



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C004

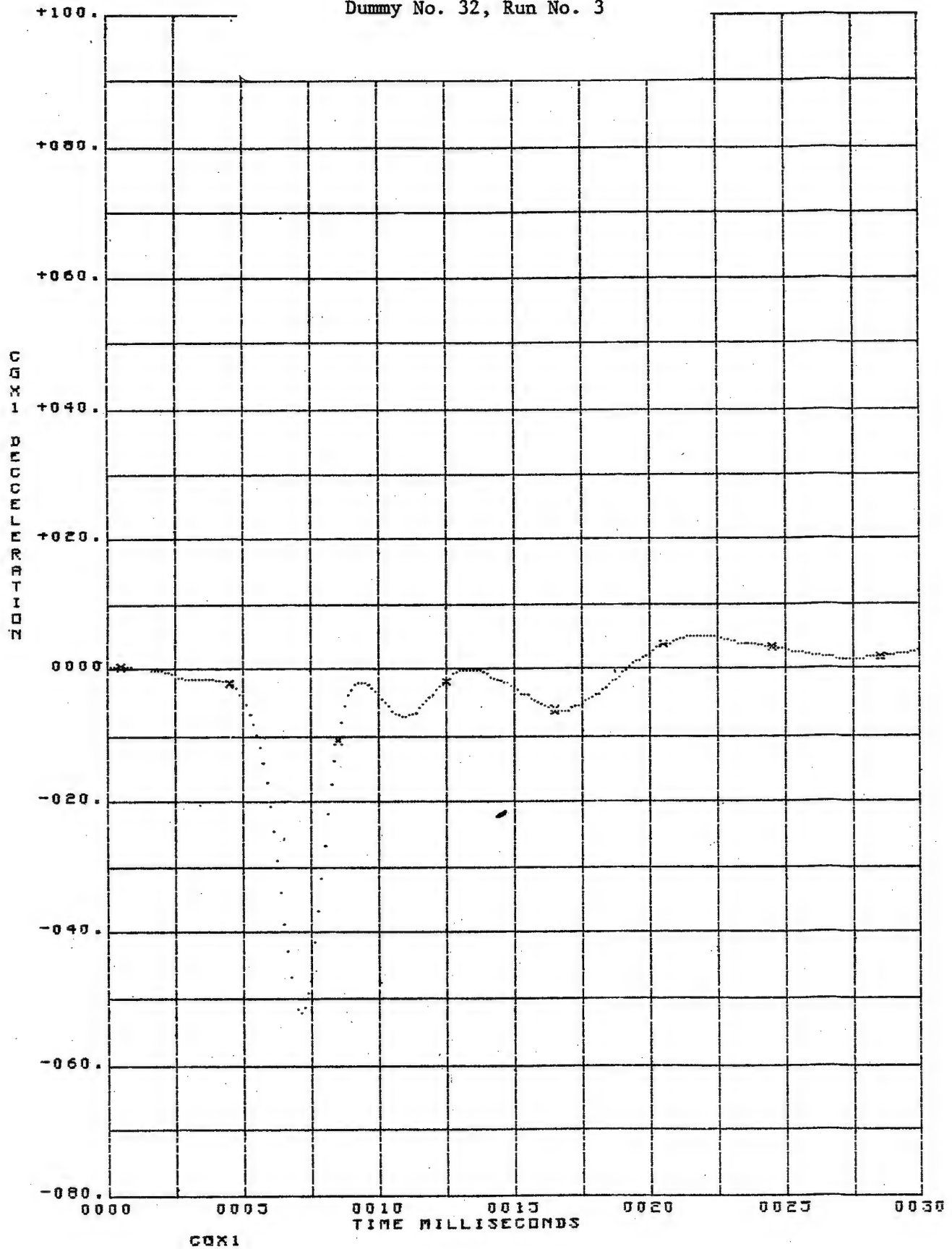
TIME					
0.0000	+000.2	+000.1	+000.1	+000.0	+000.0
0.6250	+000.0	+000.1	+000.0	+000.0	+000.0
1.2500	+000.0	+000.0	+000.0	+000.0	+000.0
1.8750	+000.1	+000.1	+000.1	+000.2	+000.3
2.5000	+000.3	+000.4	+000.4	+000.6	+000.7
3.1250	+000.9	+001.0	+001.1	+001.4	+001.6
3.7500	+001.8	+002.0	+002.3	+002.5	+002.7
4.3750	+002.9	+003.2	+003.5	+003.8	+003.9
5.0000	+004.1	+004.3	+004.6	+005.0	+005.5
5.6250	+006.4	+007.4	+008.9	+010.9	+013.5
6.2500	+016.7	+020.9	+026.0	+032.0	+039.1
6.8750	+047.3	+055.8	+063.6	+069.7	+073.3
7.5000	+073.9	+071.5	+066.9	+060.6	+053.2
8.1250	+045.1	+036.2	+028.7	+021.8	+016.6
8.7500	+013.7	+013.2	+014.4	+015.9	+017.3
9.3750	+018.4	+018.7	+018.5	+017.9	+016.8
10.0000	+015.5	+013.8	+012.0	+010.0	+008.0
10.6250	+006.2	+004.3	+002.5	+001.2	+001.8
11.2500	+003.2	+004.6	+005.6	+006.5	+007.1
11.8750	+007.3	+007.3	+007.0	+006.5	+006.1
12.5000	+005.5	+005.0	+004.4	+003.9	+003.6
13.1250	+003.5	+003.5	+003.8	+004.1	+004.4
13.7500	+004.9	+005.2	+005.5	+005.8	+006.2
14.3750	+006.5	+006.7	+006.9	+006.9	+007.0
15.0000	+007.0	+007.1	+007.1	+007.2	+007.2
15.6250	+007.2	+007.2	+007.3	+007.2	+007.2
16.2500	+007.2	+007.3	+007.3	+007.2	+007.0
16.8750	+006.9	+006.8	+006.7	+006.5	+006.3
17.5000	+005.9	+005.6	+005.2	+004.9	+004.5
18.1250	+004.0	+003.6	+003.2	+002.8	+002.3
18.7500	+001.9	+001.5	+001.2	+001.0	+001.0
19.3750	+001.0	+001.2	+001.4	+001.7	+001.9
20.0000	+002.2	+002.5	+002.8	+003.1	+003.4
20.6250	+003.7	+004.0	+004.3	+004.6	+004.8
21.2500	+005.0	+005.1	+005.3	+005.4	+005.5
21.8750	+005.6	+005.8	+005.8	+005.8	+005.8
22.5000	+005.9	+005.7	+005.7	+005.6	+005.5
23.1250	+005.4	+005.3	+005.1	+005.1	+004.9
23.7500	+004.7	+004.6	+004.4	+004.3	+004.1
24.3750	+003.9	+003.7	+003.6	+003.3	+003.3
25.0000	+003.1	+003.1	+002.8	+002.8	+002.8
25.6250	+002.6	+002.6	+002.5	+002.5	+002.5
26.2500	+002.3	+002.4	+002.3	+002.4	+002.3
26.8750	+002.3	+002.3	+002.3	+002.3	+002.3
27.5000	+002.3	+002.3	+002.4	+002.3	+002.3
28.1250	+002.2	+002.3	+002.2	+002.2	+002.3
28.7500	+002.3	+002.2	+002.2	+002.2	+002.2
29.3750	+002.2	+002.2	+002.3	+002.3	+002.4
30.0000	+002.4	+002.5	+002.5	+002.6	+002.8
30.6250	+002.8	+002.8	+002.9	+003.0	+003.0
31.2500	+003.1	+003.2	+003.2	+003.2	+003.3
31.8750	+003.4	+003.4	+003.3	+003.3	+003.6
32.5000	+003.6	+003.7	+003.7	+003.7	+003.8
33.1250	+003.8	+003.9	+004.0	+004.0	+004.0
33.7500	+004.1	+004.1	+004.2	+004.2	+004.3
34.3750	+004.3	+004.3	+004.3	+004.3	+004.4
35.0000	+004.4	+004.4	+004.4	+004.4	+004.4
35.6250	+004.4	+004.4	+004.4	+004.4	+004.4
36.2500	+004.4	+004.3	+004.3	+004.3	+004.3
36.8750	+004.3	+004.2	+004.2	+004.2	+004.1

RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C004		
37.5000	+004.1	+004.1	+004.1	+004.0	+004.0	
38.1250	+003.9	+003.9	+003.8	+003.8	+003.8	
38.7500	+003.7	+003.7	+003.7	+003.6	+003.6	
39.3750	+003.5	+003.5	+003.5	+003.5	+003.5	
40.0000	+003.4	+003.3	+003.3	+003.3	+003.2	
40.6250	+003.2	+003.2	+003.2	+003.0	+002.9	
41.2500	+002.9	+002.8	+002.7	+002.6	+002.6	
41.8750	+002.5	+002.5	+002.5	+002.3	+002.2	
42.5000	+002.2	+002.2	+002.1	+002.2	+002.2	
43.1250	+002.1	+002.1	+002.0	+002.1	+002.1	
43.7500	+002.1	+002.1	+002.1	+002.1	+002.0	
44.3750	+002.0	+002.0	+002.0	+002.1	+002.1	
45.0000	+002.1	+002.1	+002.1	+002.1	+002.0	
45.6250	+002.0	+002.0	+002.0	+002.0	+002.0	
46.2500	+002.0	+002.0	+002.0	+002.1	+001.9	
46.8750	+002.0	+002.0	+002.0	+002.0	+001.9	
47.5000	+002.0	+002.0	+002.0	+002.0	+002.0	
48.1250	+001.9	+001.9	+001.9	+001.8	+001.9	
48.7500	+001.8	+001.9	+001.9	+001.9	+001.9	
49.3750	+002.0	+001.9	+001.9	+001.9	+001.9	
50.0000	+002.0	+002.0	+002.0	+002.0	+002.0	
50.6250	+002.0	+002.1	+002.1	+002.1	+002.1	
51.2500	+002.1	+002.1	+002.1	+002.1	+002.1	
51.8750	+002.1	+002.1	+002.1	+002.1	+002.1	
52.5000	+002.1	+002.1	+002.0	+002.0	+002.1	
53.1250	+002.0	+002.1	+002.1	+002.1	+002.1	
53.7500	+002.1	+002.1	+002.1	+002.1	+002.1	
54.3750	+002.1	+002.1	+002.1	+002.1	+002.1	
55.0000	+002.1	+002.1	+002.1	+002.2	+002.2	
55.6250	+002.2	+002.2	+002.1	+002.1	+002.2	
56.2500	+002.2	+002.2	+002.1	+002.1	+002.1	
56.8750	+002.3	+002.3	+002.3	+002.3	+002.3	
57.5000	+002.3	+002.3	+002.3	+002.3	+002.3	
58.1250	+002.1	+002.1	+002.1	+002.1	+002.1	
58.7500	+002.1	+002.1	+002.1	+001.9	+001.9	
59.3750	+001.9	+001.9	+001.9	+001.8	+313.4	

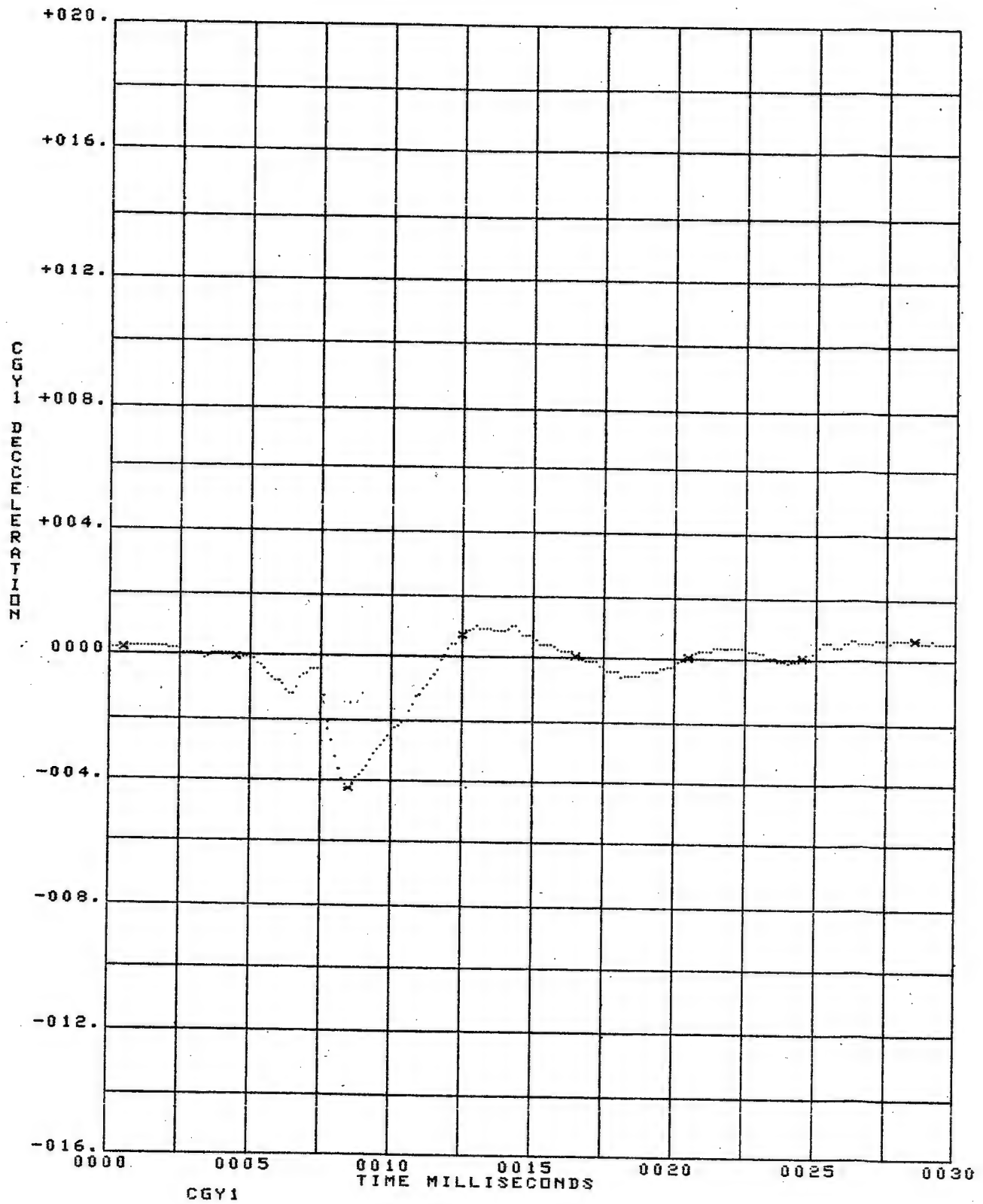
AMAX= +073.9

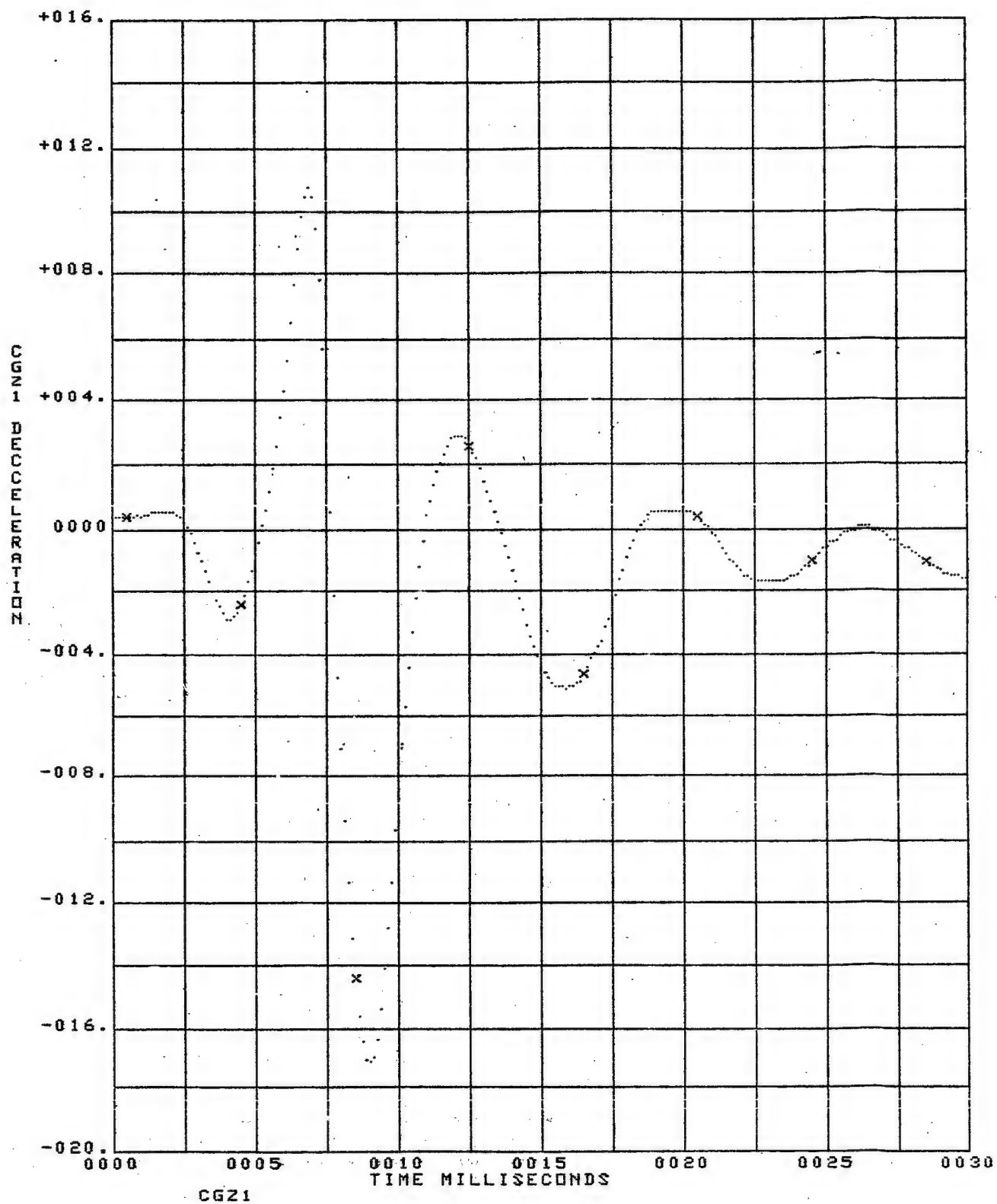
AT T=007.5

Chest Impact
Dummy No. 32, Run No. 3

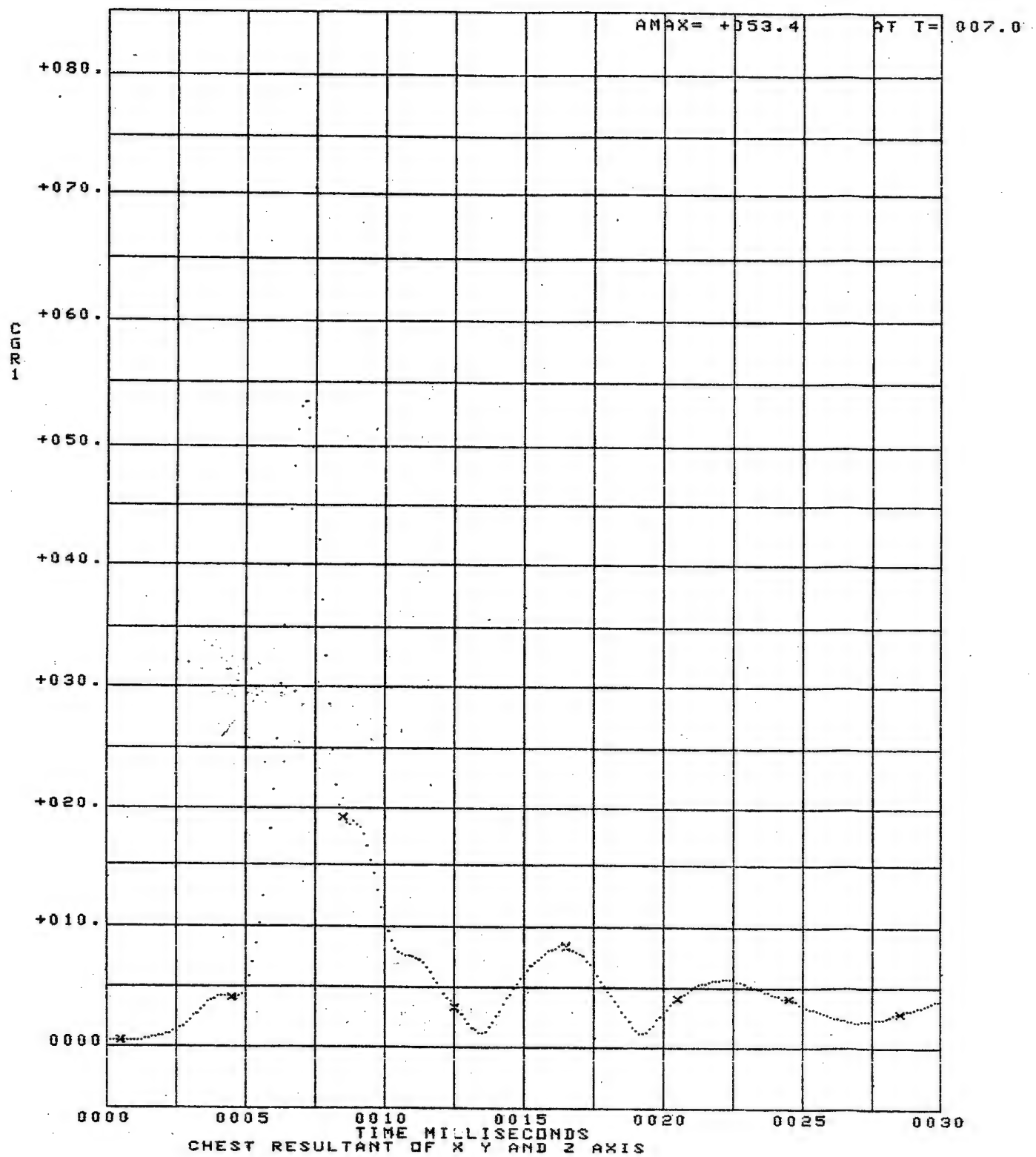


CHEST IMPACT
TEST C002





CHEST IMPACT
TEST C002



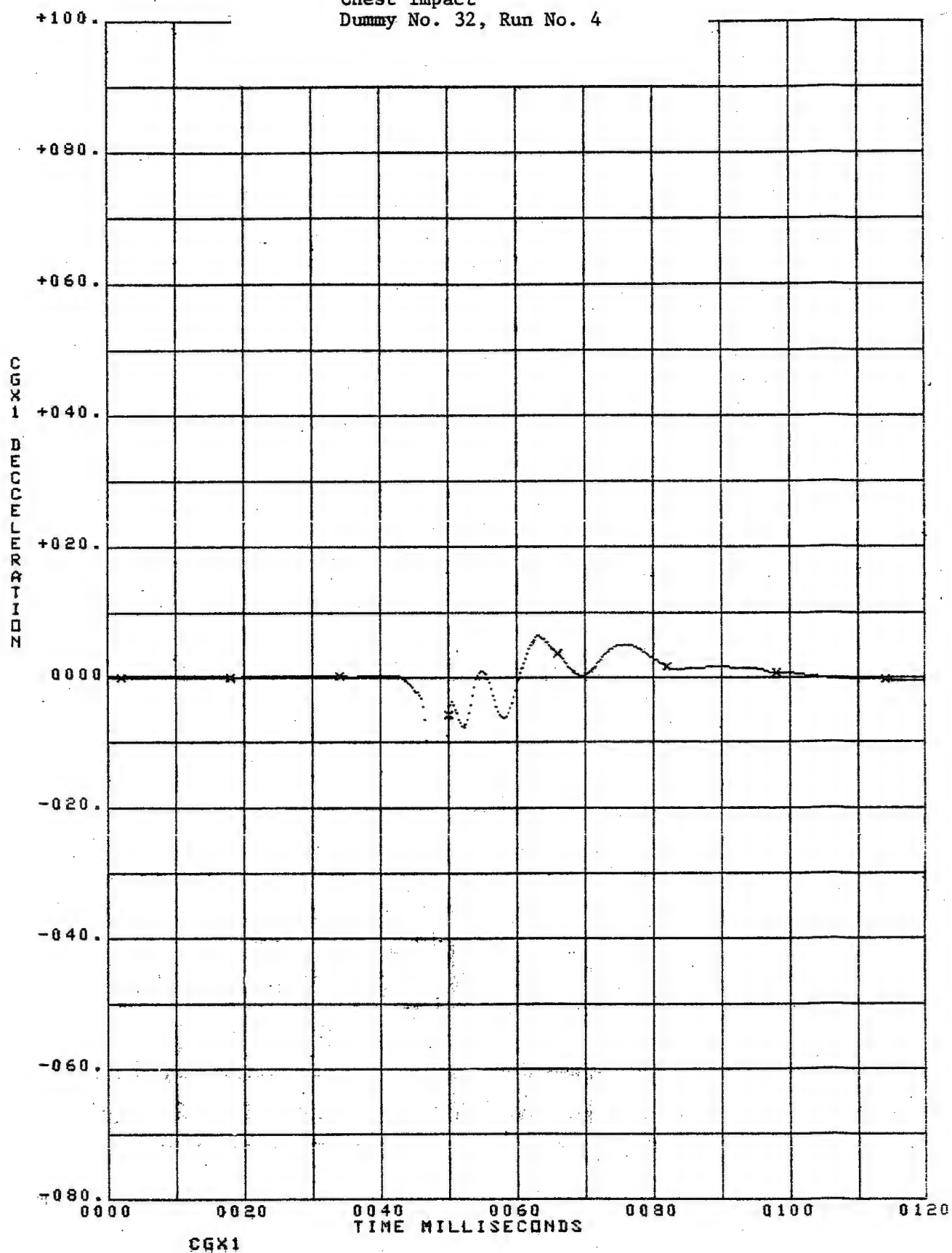
RESULTANT < CGR1 > OF CGX1 CGY1 CGZ1 C002

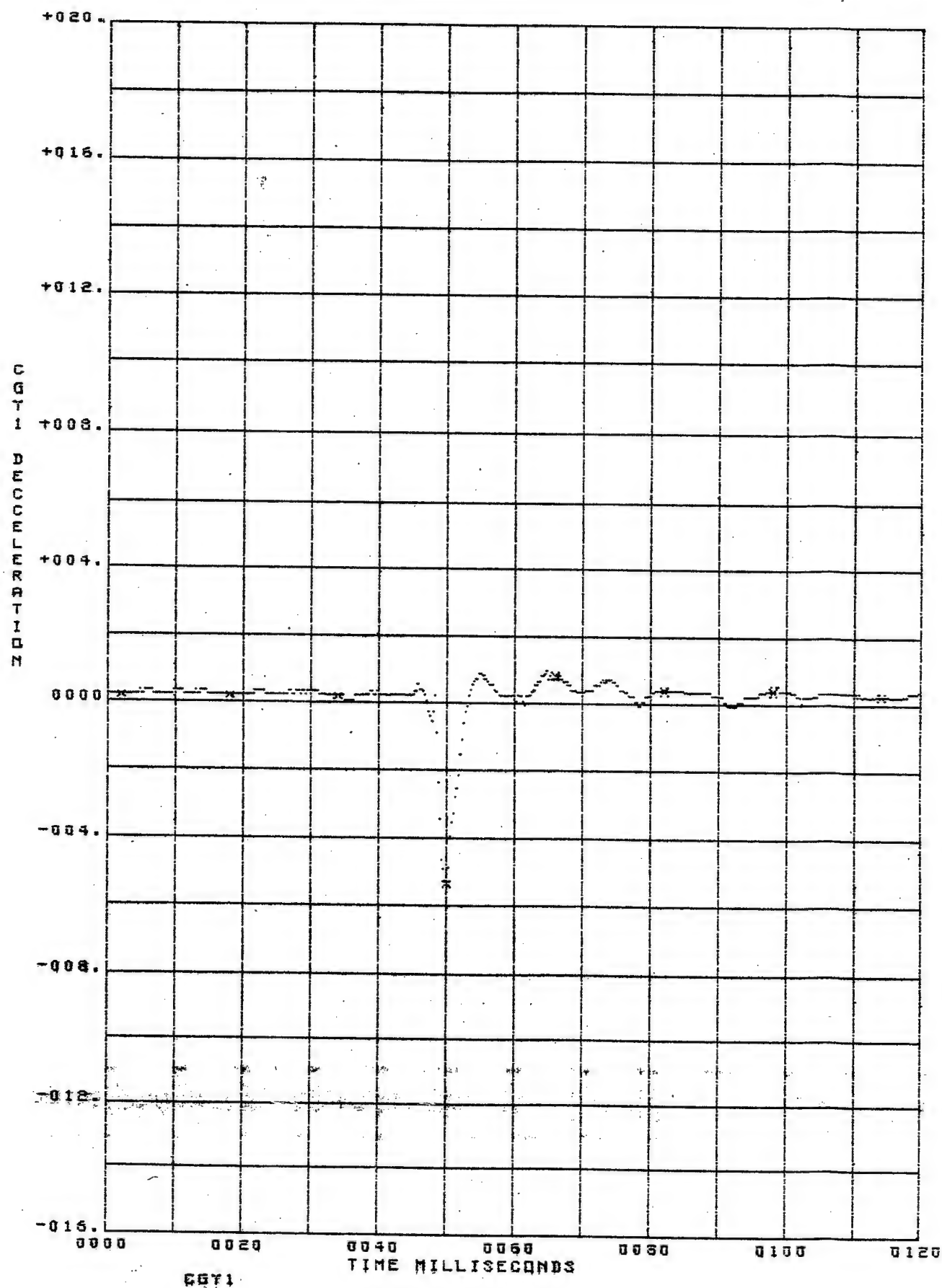
TIME					
0.0000	+000.0	+000.0	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.1	+000.1	+000.2	+000.2	+000.3
1.8750	+000.4	+000.4	+000.6	+000.7	+000.9
2.5000	+001.0	+001.1	+001.4	+001.6	+002.0
3.1250	+002.1	+002.5	+002.7	+003.1	+003.2
3.7500	+003.4	+003.6	+003.7	+003.6	+003.6
4.3750	+003.9	+003.9	+003.6	+003.9	+004.5
5.0000	+005.4	+006.5	+007.9	+009.6	+011.8
5.6250	+014.5	+017.5	+021.0	+025.2	+029.8
6.2500	+034.7	+039.6	+044.2	+048.2	+051.2
6.8750	+053.0	+053.4	+052.1	+049.7	+046.1
7.5000	+041.8	+036.9	+032.2	+028.0	+024.3
8.1250	+021.5	+019.7	+018.6	+018.1	+018.0
8.7500	+013.1	+018.0	+017.7	+017.1	+016.1
9.3750	+014.9	+013.7	+012.4	+011.0	+009.9
10.0000	+009.0	+008.3	+007.7	+007.4	+007.2
10.6250	+007.1	+007.1	+007.1	+006.9	+006.8
11.2500	+006.5	+006.1	+005.7	+005.3	+004.9
11.8750	+004.5	+004.0	+003.5	+003.2	+002.8
12.5000	+002.4	+002.1	+001.7	+001.4	+001.1
13.1250	+000.9	+000.7	+000.7	+000.8	+001.2
13.7500	+001.5	+002.0	+002.4	+003.0	+003.4
14.3750	+003.9	+004.4	+004.7	+005.2	+005.6
15.0000	+005.9	+006.6	+006.6	+006.8	+007.1
15.6250	+007.3	+007.5	+007.6	+007.8	+007.9
16.2500	+008.0	+007.9	+007.7	+007.5	+007.4
16.8750	+007.3	+007.1	+006.7	+006.4	+006.3
17.5000	+005.5	+005.0	+004.6	+004.1	+003.7
18.1250	+003.3	+002.8	+002.4	+002.0	+001.6
18.7500	+001.1	+000.9	+000.7	+000.6	+000.8
19.3750	+001.0	+001.3	+001.7	+002.0	+002.4
20.0000	+002.7	+003.0	+003.3	+003.6	+003.8
20.6250	+004.0	+004.4	+004.4	+004.6	+004.7
21.2500	+004.9	+004.9	+005.0	+005.1	+005.1
21.8750	+005.2	+005.2	+005.2	+005.2	+005.1
22.5000	+005.0	+005.0	+004.9	+004.7	+004.6
23.1250	+004.3	+004.4	+004.3	+004.1	+004.1
23.7500	+004.0	+003.9	+003.7	+003.6	+003.5
24.3750	+003.5	+003.4	+003.2	+002.9	+002.8
25.0000	+002.8	+002.6	+002.6	+002.5	+002.4
25.6250	+002.2	+002.1	+002.0	+001.9	+001.9
26.2500	+001.8	+001.7	+001.6	+001.6	+001.6
26.8750	+001.6	+001.7	+001.6	+001.7	+001.7
27.5000	+001.8	+001.8	+001.8	+001.9	+002.0
28.1250	+002.1	+002.2	+002.2	+002.4	+002.5
28.7500	+002.5	+002.7	+002.8	+002.8	+002.9
29.3750	+002.9	+003.1	+003.2	+003.2	+003.4
30.0000	+003.4	+003.4	+003.6	+003.6	+003.7
30.6250	+003.6	+003.7	+003.8	+003.8	+003.8
31.2500	+003.8	+003.8	+003.8	+003.8	+003.9
31.8750	+003.9	+003.9	+003.9	+003.9	+003.9
32.5000	+004.0	+004.0	+004.0	+004.1	+004.1
33.1250	+004.1	+004.2	+004.2	+004.2	+004.2
33.7500	+004.3	+004.4	+004.4	+004.4	+004.4
34.3750	+004.5	+004.6	+004.6	+004.6	+004.7
35.0000	+004.6	+004.7	+004.7	+004.7	+004.7
35.6250	+004.7	+004.7	+004.7	+004.7	+004.6
36.2500	+004.6	+004.9	+004.5	+004.6	+004.4
36.8750	+004.4	+004.4	+004.3	+004.2	+004.2

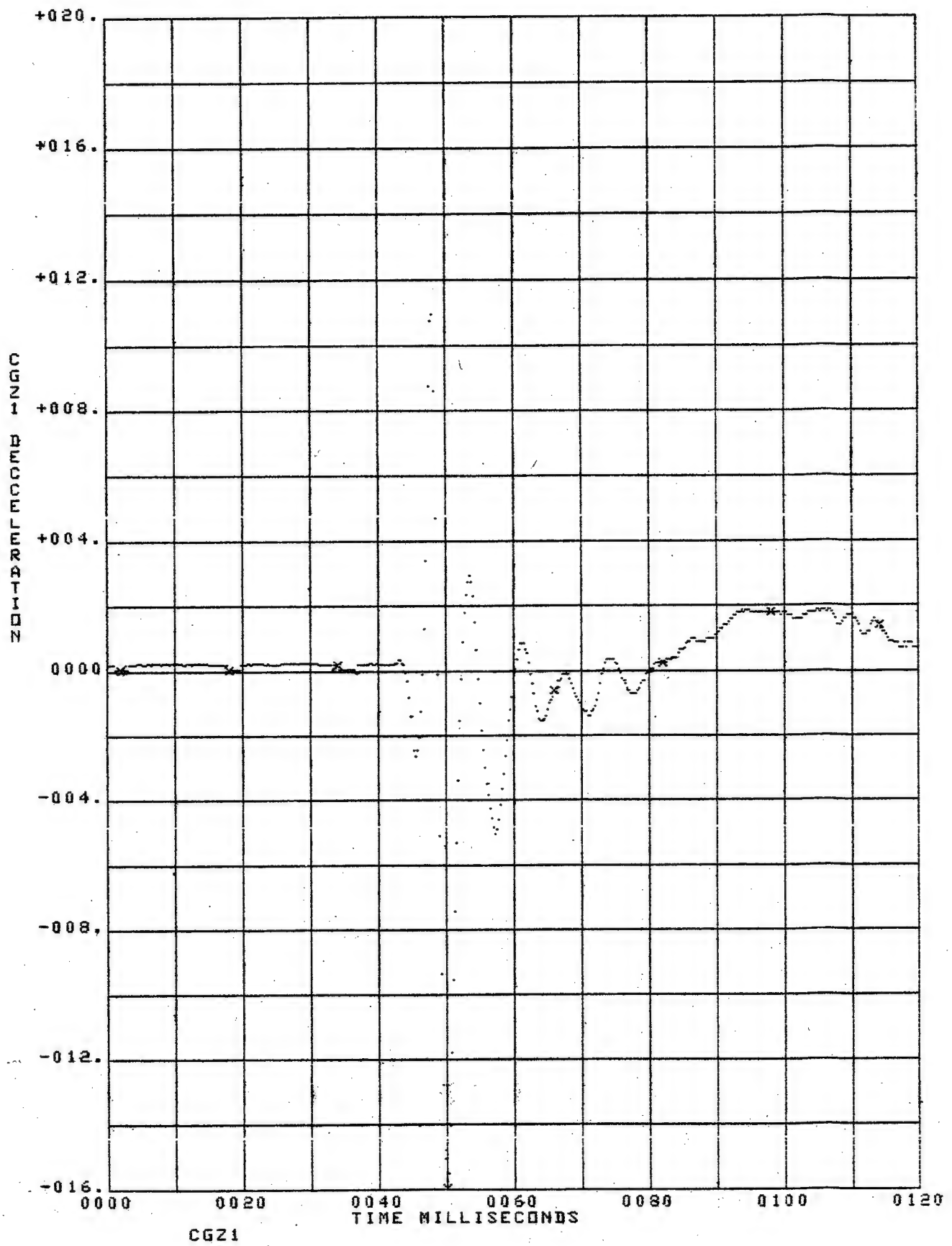
RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C002		
37.5000	+004.2	+004.1	+004.0	+003.9	+003.9	
38.1250	+003.8	+003.7	+003.6	+003.6	+003.5	
38.7500	+003.5	+003.3	+003.2	+003.2	+003.0	
39.3750	+003.0	+002.8	+002.7	+002.7	+002.5	
40.0000	+002.5	+002.4	+002.2	+002.2	+002.1	
40.6250	+002.0	+002.0	+001.8	+001.7	+001.7	
41.2500	+001.7	+001.7	+001.7	+001.5	+001.6	
41.8750	+001.6	+001.5	+001.5	+001.5	+001.6	
42.5000	+001.6	+001.6	+001.6	+001.7	+001.7	
43.1250	+001.6	+001.6	+001.7	+001.8	+001.8	
43.7500	+001.8	+001.8	+001.8	+001.9	+001.9	
44.3750	+001.9	+002.0	+002.0	+002.1	+002.1	
45.0000	+002.1	+002.1	+002.1	+002.1	+002.1	
45.6250	+002.1	+002.1	+002.1	+002.2	+002.1	
46.2500	+002.1	+002.2	+002.2	+002.2	+002.2	
46.8750	+002.2	+002.2	+002.1	+002.2	+002.2	
47.5000	+002.2	+002.1	+002.2	+002.2	+002.2	
48.1250	+002.1	+002.1	+002.1	+002.1	+002.1	
48.7500	+002.1	+002.1	+002.1	+002.1	+002.1	
49.3750	+002.1	+002.1	+002.1	+002.2	+002.2	
50.0000	+002.2	+002.2	+002.2	+002.2	+002.2	
50.6250	+002.2	+002.3	+002.3	+002.3	+002.4	
51.2500	+002.4	+002.4	+002.4	+002.4	+002.4	
51.8750	+002.4	+002.5	+002.5	+002.5	+002.4	
52.5000	+002.5	+002.3	+002.4	+002.3	+002.4	
53.1250	+002.2	+002.3	+002.3	+002.3	+002.2	
53.7500	+002.2	+002.2	+002.2	+002.1	+002.1	
54.3750	+002.1	+002.1	+002.0	+002.1	+002.1	
55.0000	+002.1	+002.0	+002.0	+002.0	+002.1	
55.6250	+002.0	+002.1	+002.1	+002.0	+002.0	
56.2500	+002.1	+002.1	+001.9	+001.9	+002.1	
56.8750	+002.1	+002.1	+002.1	+002.1	+001.9	
57.5000	+001.9	+001.9	+001.9	+001.9	+001.9	
58.1250	+001.9	+002.0	+002.0	+002.0	+002.0	
58.7500	+002.0	+002.0	+002.0	+001.9	+001.9	
59.3750	+001.9	+001.9	+001.9	+001.9	+313.4	

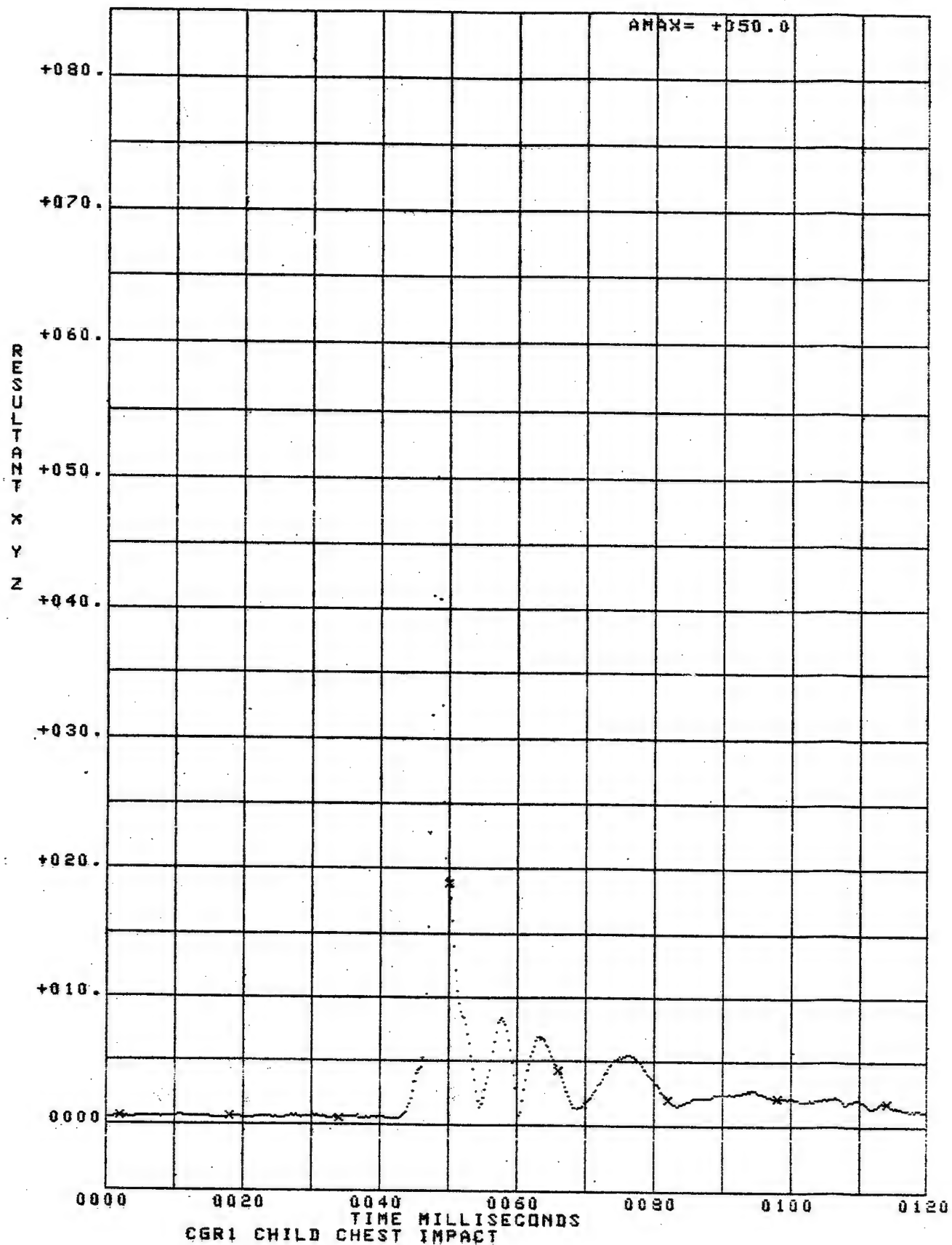
AMAX= +053.4 AT T=007.0

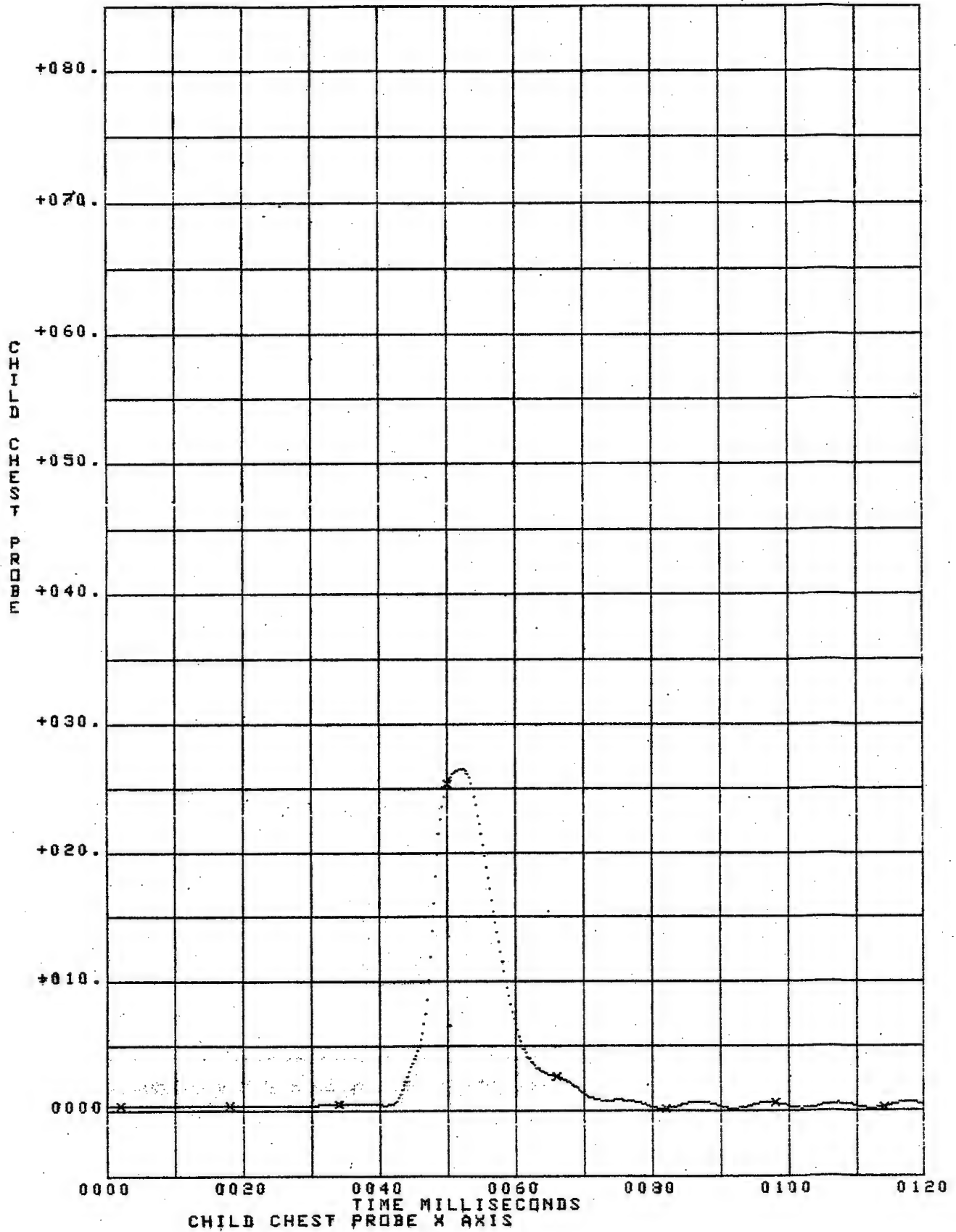
Chest Impact
Dummy No. 32, Run No. 4











RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 TRC316

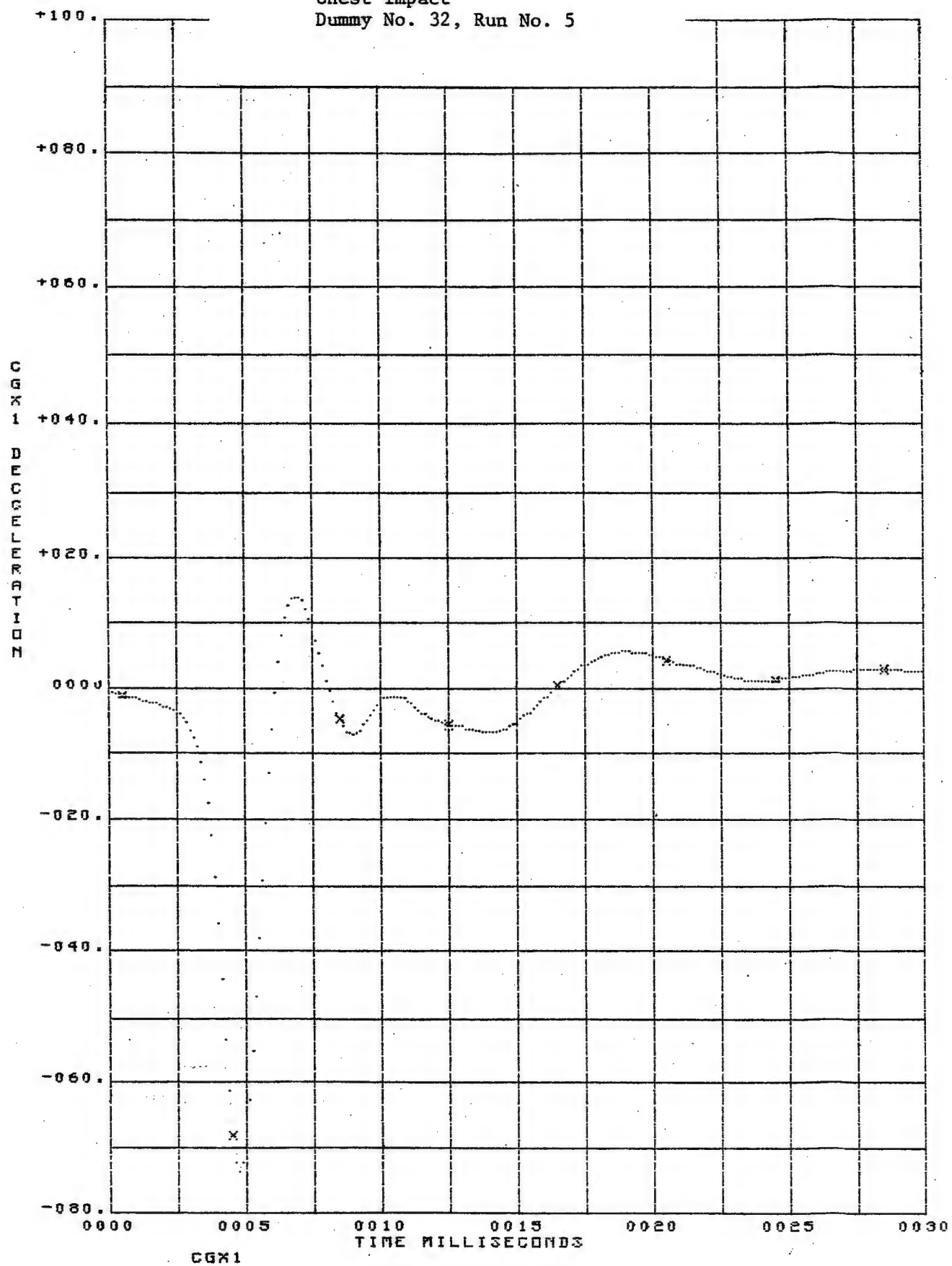
TIME					
0.00	+000.0	+000.0	+000.0	+000.0	+000.1
1.25	+000.1	+000.1	+000.1	+000.1	+000.1
2.50	+000.0	+000.1	+000.0	+000.0	+000.0
3.75	+000.0	+000.1	+000.1	+000.1	+000.1
5.00	+000.1	+000.1	+000.1	+000.1	+000.1
6.25	+000.1	+000.1	+000.1	+000.1	+000.1
7.50	+000.1	+000.0	+000.1	+000.1	+000.1
8.75	+000.1	+000.1	+000.1	+000.1	+000.1
10.00	+000.1	+000.2	+000.2	+000.2	+000.1
11.25	+000.1	+000.1	+000.1	+000.1	+000.1
12.50	+000.1	+000.1	+000.1	+000.1	+000.1
13.75	+000.1	+000.1	+000.1	+000.1	+000.1
15.00	+000.0	+000.0	+000.0	+000.0	+000.0
16.25	+000.0	+000.0	+000.0	+000.0	+000.0
17.50	+000.0	+000.1	+000.1	+000.1	+000.1
18.75	+000.1	+000.1	+000.1	+000.0	+000.0
20.00	+000.0	+000.0	+000.0	+000.0	+000.0
21.25	+000.0	+000.1	+000.1	+000.1	+000.1
22.50	+000.1	+000.1	+000.1	+000.1	+000.1
23.75	+000.1	+000.0	+000.0	+000.1	+000.0
25.00	+000.0	+000.0	+000.0	+000.0	+000.1
26.25	+000.1	+000.1	+000.2	+000.1	+000.2
27.50	+000.2	+000.1	+000.1	+000.0	+000.1
28.75	+000.1	+000.1	+000.1	+000.1	+000.1
30.00	+000.2	+000.1	+000.2	+000.1	+000.1
31.25	+000.1	+000.1	+000.1	+000.0	+000.0
32.50	+000.0	+000.0	+000.1	+000.0	+000.0
33.75	+000.0	+000.1	+000.1	+000.1	+000.2
35.00	+000.2	+000.2	+000.2	+000.2	+000.2
36.25	+000.1	+000.2	+000.0	+000.0	+000.0
37.50	+000.0	+000.1	+000.0	+000.0	+000.1
38.75	+000.1	+000.1	+000.0	+000.1	+000.0
40.00	+000.1	+000.1	+000.0	+000.0	+000.0
41.25	+000.0	+000.0	+000.0	+000.0	+000.0
42.50	+000.0	+000.1	+000.2	+000.4	+000.6
43.75	+000.9	+001.1	+001.6	+002.2	+002.9
45.00	+003.5	+003.7	+003.9	+004.0	+004.7
46.25	+006.5	+009.8	+015.0	+022.2	+031.3
47.50	+040.7	+047.7	+050.0	+047.3	+040.5
48.75	+032.1	+024.6	+020.2	+018.7	+018.3
50.00	+017.3	+015.5	+013.5	+011.5	+010.1
51.25	+008.9	+008.3	+008.0	+007.8	+007.4
52.50	+006.7	+005.8	+004.9	+003.9	+003.0
53.75	+002.1	+001.4	+000.9	+001.2	+001.7
55.00	+002.2	+002.7	+003.2	+003.8	+004.5
56.25	+005.3	+006.0	+006.8	+007.5	+007.8
57.50	+007.8	+007.7	+007.4	+006.8	+006.1
58.75	+005.4	+004.4	+003.4	+002.3	+001.4
60.00	+000.3	+000.5	+001.4	+002.2	+003.0
61.25	+003.7	+004.3	+004.9	+005.3	+005.7
62.50	+006.1	+006.3	+006.4	+006.3	+006.2
63.75	+006.1	+005.7	+005.6	+005.3	+004.9
65.00	+004.7	+004.3	+004.1	+003.8	+003.5
66.25	+003.2	+002.9	+002.5	+002.1	+001.8
67.50	+001.4	+001.1	+000.9	+000.9	+000.8
68.75	+001.0	+001.0	+001.1	+001.2	+001.3
70.00	+001.4	+001.5	+001.6	+001.9	+002.1
71.25	+002.3	+002.6	+002.8	+002.9	+003.1
72.50	+003.4	+003.7	+003.9	+004.1	+004.3
73.75	+004.5	+004.6	+004.7	+004.8	+004.9

RESULTANT (CGR1)	DF	CGX1	CGY1	CGZ1	TRC316	
75.00	+004.8	+004.9	+004.9	+005.0	+005.0	
76.25	+005.0	+004.9	+004.8	+004.7	+004.7	
77.50	+004.6	+004.4	+004.2	+003.9	+003.8	
78.75	+003.5	+003.4	+003.2	+003.2	+003.0	
80.00	+002.7	+002.6	+002.5	+002.2	+002.1	
81.25	+001.8	+001.8	+001.6	+001.4	+001.3	
82.50	+001.2	+001.2	+001.1	+001.1	+001.2	
83.75	+001.2	+001.2	+001.3	+001.4	+001.4	
85.00	+001.4	+001.5	+001.6	+001.6	+001.7	
86.25	+001.7	+001.7	+001.6	+001.6	+001.6	
87.50	+001.7	+001.7	+001.7	+001.8	+001.8	
88.75	+001.8	+001.8	+001.8	+001.9	+001.9	
90.00	+001.9	+001.9	+001.9	+002.0	+001.9	
91.25	+001.9	+001.9	+002.0	+002.0	+002.0	
92.50	+002.0	+002.1	+002.1	+002.1	+002.2	
93.75	+002.1	+002.2	+002.2	+002.2	+002.1	
95.00	+002.0	+002.0	+002.0	+001.9	+001.9	
96.25	+001.8	+001.8	+001.7	+001.7	+001.7	
97.50	+001.7	+001.7	+001.7	+001.7	+001.7	
98.75	+001.7	+001.7	+001.6	+001.7	+001.7	
100.00	+001.7	+001.6	+001.5	+001.5	+001.4	
101.25	+001.4	+001.4	+001.4	+001.4	+001.4	
102.50	+001.5	+001.4	+001.4	+001.6	+001.6	
103.75	+001.6	+001.6	+001.6	+001.7	+001.7	
105.00	+001.6	+001.7	+001.7	+001.7	+001.6	
106.25	+001.7	+001.7	+001.6	+001.5	+001.4	
107.50	+001.2	+001.2	+001.2	+001.4	+001.4	
108.75	+001.4	+001.5	+001.5	+001.5	+001.4	
110.00	+001.4	+001.4	+001.3	+001.2	+001.0	
111.25	+000.9	+000.9	+000.9	+001.0	+001.0	
112.50	+001.2	+001.3	+001.4	+001.3	+001.4	
113.75	+001.2	+001.1	+001.1	+001.0	+001.0	
115.00	+001.0	+000.9	+000.9	+000.9	+000.8	
116.25	+000.8	+000.7	+000.8	+000.7	+000.7	
117.50	+000.7	+000.7	+000.7	+000.7	+000.7	
118.75	+000.7	+000.7	+000.7	+000.7	+313.4	

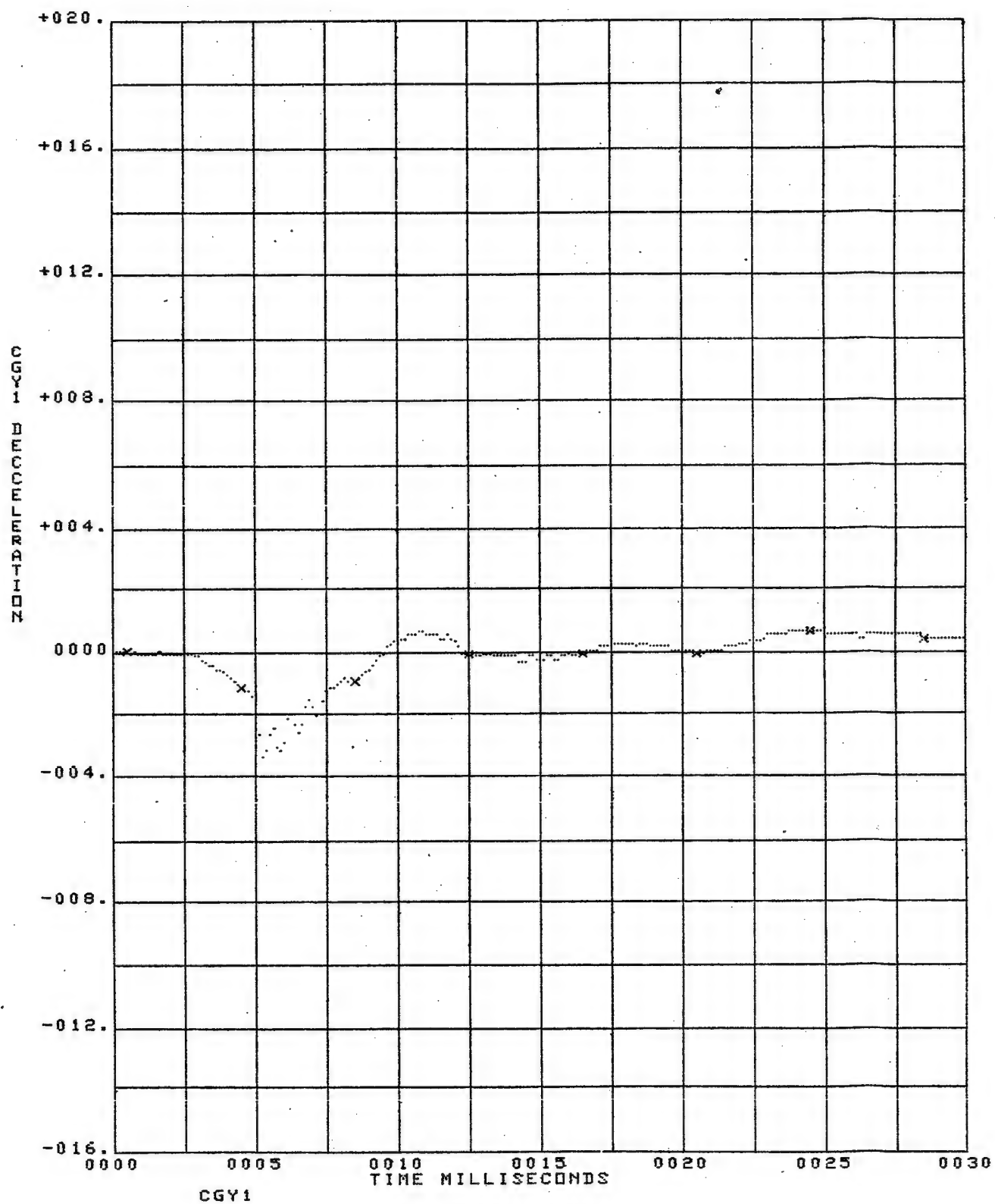
AMAX= +050.0

AT T=048.0

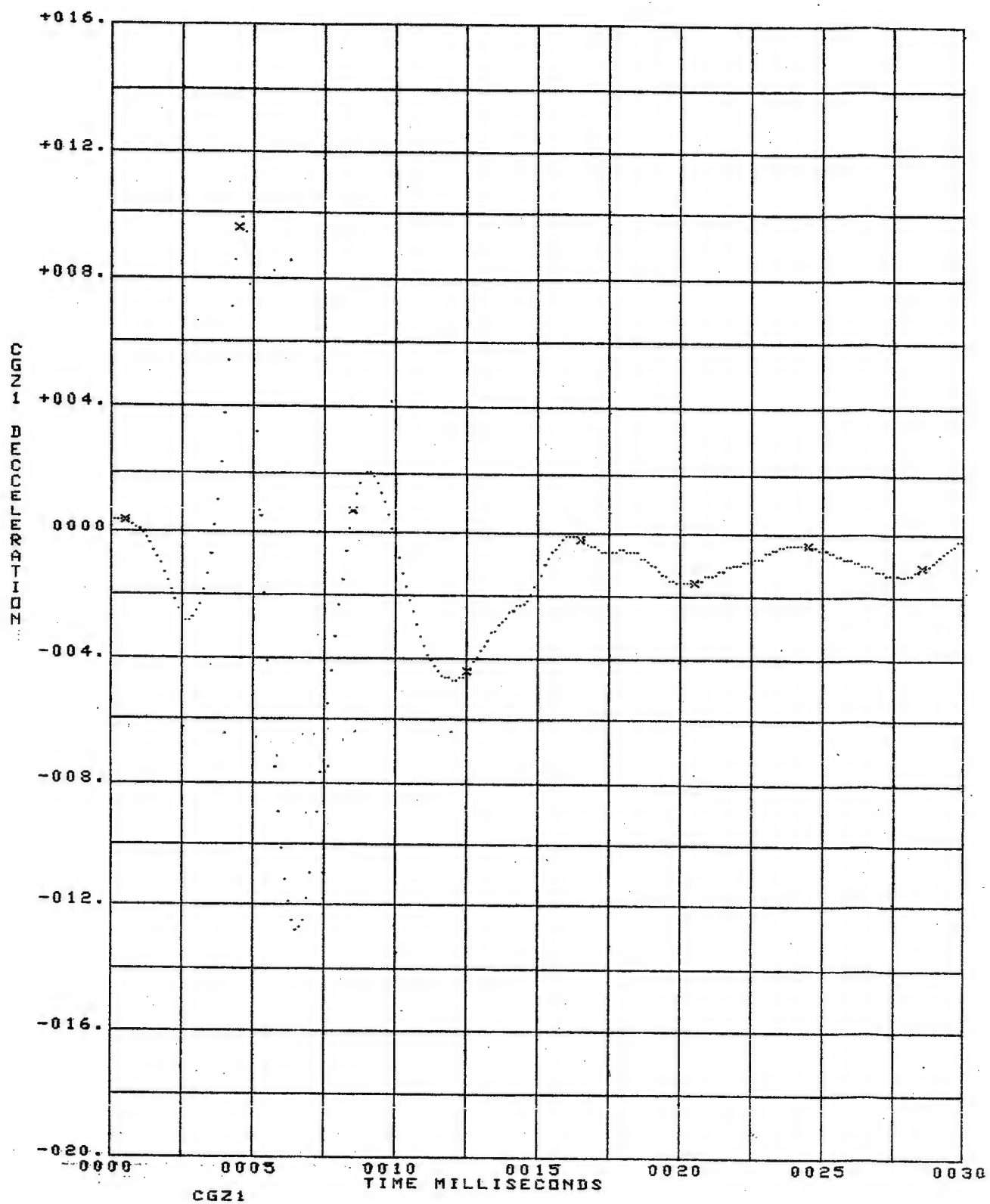
Chest Impact
Dummy No. 32, Run No. 5



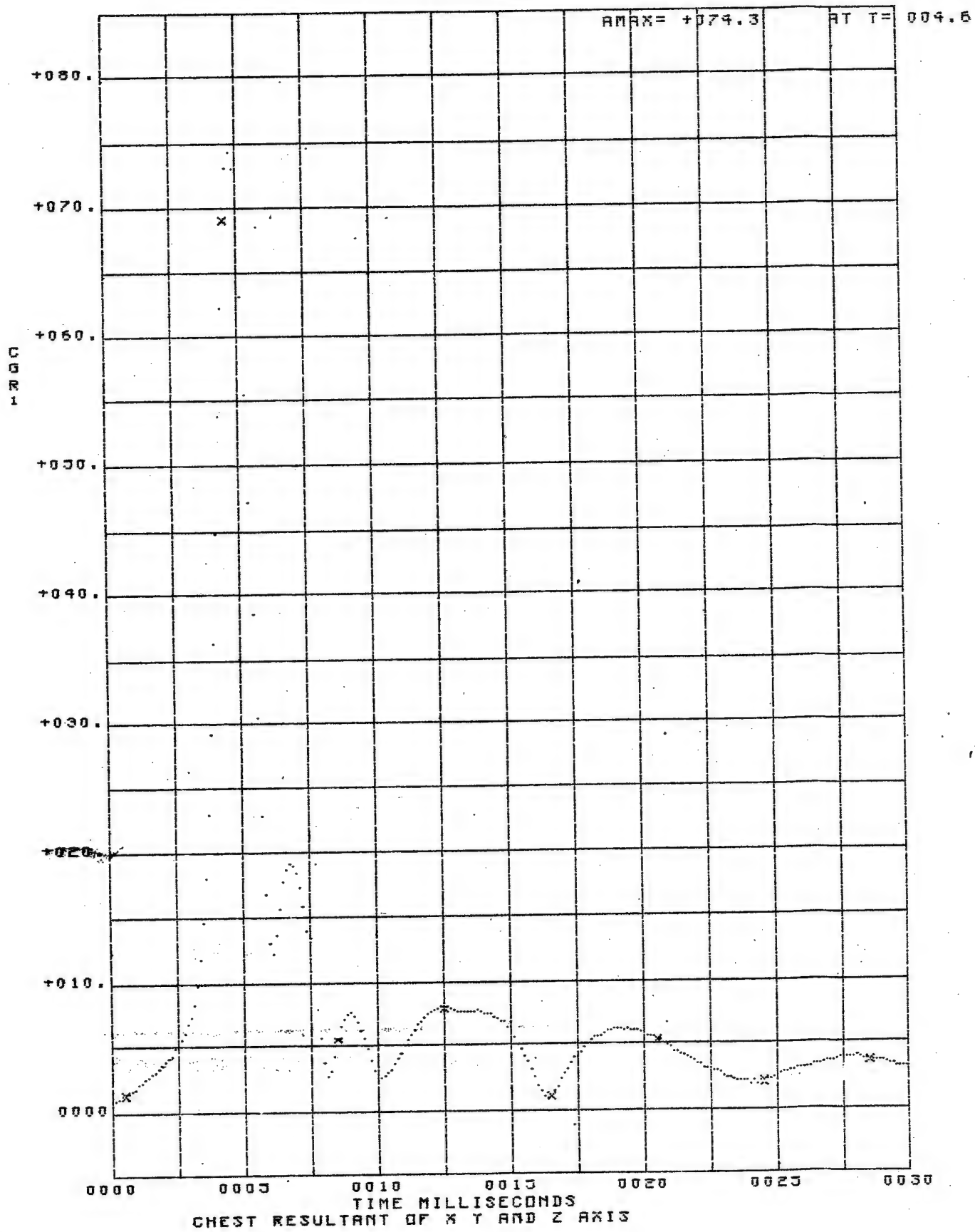
CHEST IMPACT
TEST C001



CHEST IMPACT
TEST C001



CHEST IMPACT
TEST C001



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C001

TIME					
0.0000	+000.6	+000.7	+000.9	+000.9	+001.1
0.6250	+001.2	+001.4	+001.6	+001.8	+002.0
1.2500	+002.2	+002.4	+002.6	+002.8	+003.1
1.8750	+003.3	+003.6	+003.9	+004.4	+004.8
2.5000	+005.2	+005.7	+006.2	+006.9	+007.9
3.1250	+009.3	+011.2	+014.0	+017.6	+022.5
3.7500	+028.6	+036.1	+044.7	+053.8	+062.2
4.3750	+068.9	+073.0	+074.3	+072.9	+069.0
5.0000	+063.2	+055.5	+047.1	+038.4	+030.0
5.6250	+022.3	+016.2	+012.6	+011.8	+013.1
6.2500	+015.2	+017.2	+018.1	+018.7	+018.5
6.8750	+018.0	+016.9	+015.3	+015.4	+011.5
7.5000	+009.4	+007.9	+005.2	+003.2	+002.1
8.1250	+002.5	+003.8	+005.0	+006.0	+006.7
8.7500	+007.0	+007.8	+006.9	+006.4	+005.8
9.3750	+005.1	+004.2	+003.4	+002.6	+002.1
10.0000	+002.0	+002.1	+002.3	+002.7	+003.1
10.6250	+003.6	+004.0	+004.5	+004.9	+005.4
11.2500	+005.7	+006.1	+006.4	+006.8	+007.0
11.8750	+007.2	+007.3	+007.3	+007.5	+007.4
12.5000	+007.5	+007.3	+007.3	+007.2	+007.2
13.1250	+007.1	+007.1	+007.2	+007.2	+007.2
13.7500	+007.2	+007.1	+007.0	+007.0	+006.8
14.3750	+006.7	+006.5	+006.3	+005.9	+005.4
15.0000	+005.1	+004.6	+004.2	+003.7	+003.2
15.6250	+002.6	+002.1	+001.5	+001.1	+000.7
16.2500	+000.5	+000.7	+001.0	+001.4	+001.8
16.8750	+002.3	+002.7	+003.1	+003.4	+003.7
17.5000	+004.0	+004.3	+004.6	+004.7	+005.0
18.1250	+005.2	+005.2	+005.4	+005.6	+005.6
18.7500	+005.7	+005.7	+005.7	+005.7	+005.7
19.3750	+005.6	+005.6	+005.6	+005.5	+005.3
20.0000	+005.9	+005.1	+005.0	+004.8	+004.8
20.6250	+004.6	+004.3	+004.3	+004.1	+004.0
21.2500	+003.8	+003.6	+003.5	+003.3	+003.3
21.8750	+003.0	+003.0	+002.8	+002.7	+002.5
22.5000	+002.4	+002.3	+002.2	+002.0	+001.9
23.1250	+001.8	+001.8	+001.7	+001.6	+001.6
23.7500	+001.6	+001.5	+001.6	+001.9	+001.6
24.3750	+001.7	+001.7	+001.8	+001.9	+002.0
25.0000	+002.1	+002.2	+002.2	+002.3	+002.3
25.6250	+002.5	+002.5	+002.7	+002.7	+002.8
26.2500	+002.9	+002.9	+002.9	+003.0	+003.1
26.8750	+003.1	+003.1	+003.2	+003.3	+003.3
27.5000	+003.3	+003.3	+003.3	+003.4	+003.3
28.1250	+003.2	+003.2	+003.2	+003.2	+003.1
28.7500	+003.1	+003.1	+003.0	+002.8	+002.8
29.3750	+002.8	+002.8	+002.8	+002.8	+002.8
30.0000	+002.7	+002.8	+002.8	+002.8	+002.8
30.6250	+002.8	+002.8	+003.0	+003.0	+003.0
31.2500	+003.0	+003.0	+003.0	+003.2	+003.2
31.8750	+003.2	+003.2	+003.3	+003.3	+003.3
32.5000	+003.5	+003.5	+003.6	+003.7	+003.7
33.1250	+003.7	+003.7	+003.9	+003.9	+003.9
33.7500	+003.9	+003.9	+004.0	+004.0	+004.0
34.3750	+004.0	+004.0	+004.0	+004.0	+004.0
35.0000	+003.9	+003.9	+003.8	+003.8	+003.8
35.6250	+003.7	+003.7	+003.6	+003.6	+003.5
36.2500	+003.4	+003.5	+003.4	+003.3	+003.3
36.8750	+003.2	+003.2	+003.2	+003.2	+003.2

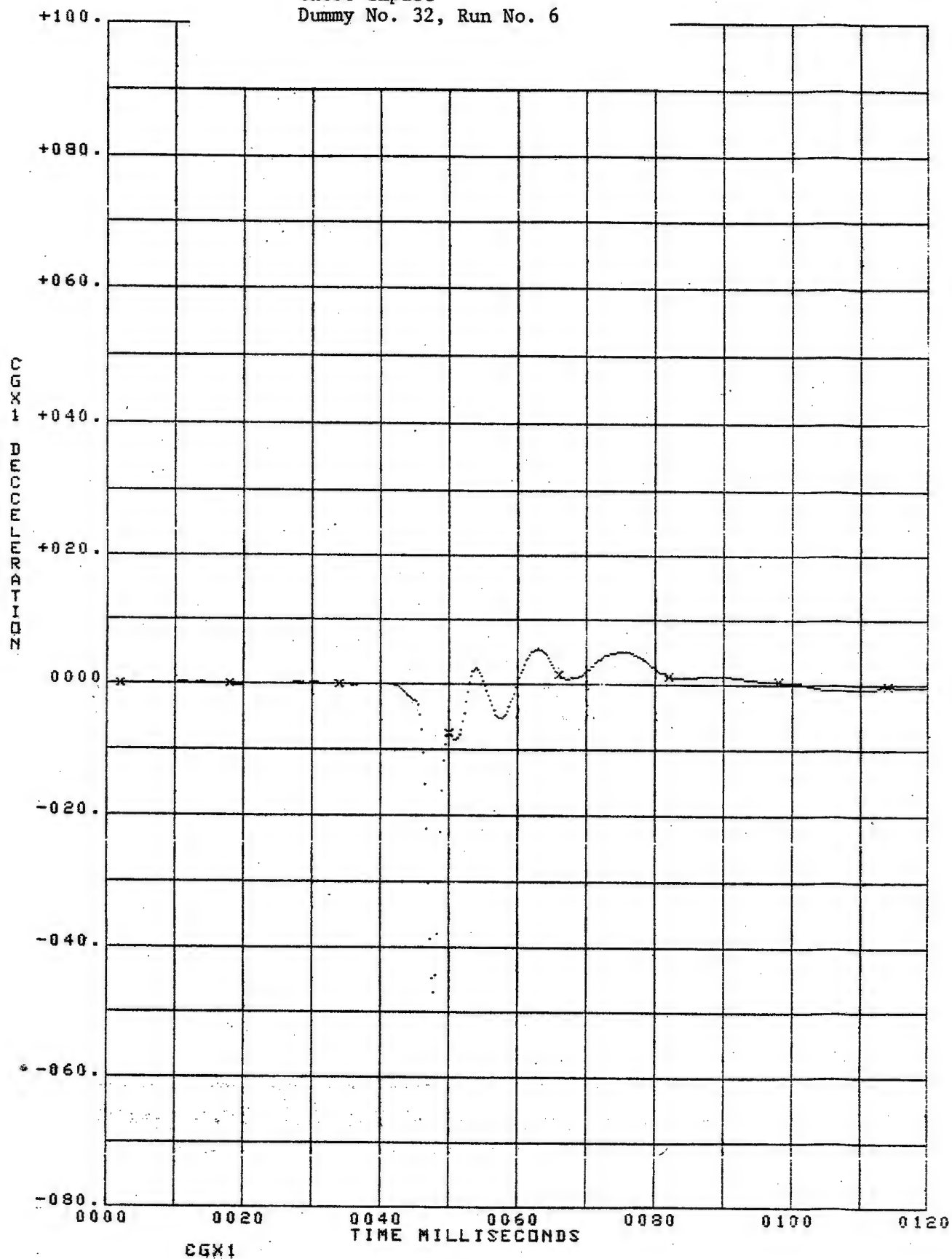
RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C001		
37.5000	+003.0	+003.0	+002.9	+002.0	+002.0	+002.0
38.1250	+002.0	+002.7	+002.6	+002.0	+002.0	+002.0
38.7500	+002.5	+002.5	+002.5	+002.0	+002.0	+002.0
39.3750	+002.9	+002.2	+002.0	+002.0	+002.1	+002.1
40.0000	+002.1	+002.1	+002.1	+002.0	+002.0	+001.9
40.6250	+001.9	+001.9	+001.8	+001.8	+001.8	+001.8
41.2500	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
41.8750	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
42.5000	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
43.1250	+001.8	+001.8	+001.9	+001.9	+001.9	+001.9
43.7500	+001.9	+001.9	+002.0	+002.0	+002.0	+002.0
44.3750	+002.0	+002.0	+002.0	+002.0	+002.0	+001.9
45.0000	+001.9	+001.9	+001.9	+002.0	+002.0	+001.9
45.6250	+002.0	+001.9	+001.9	+001.9	+001.9	+001.9
46.2500	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
46.8750	+001.7	+001.8	+001.8	+001.8	+001.8	+001.8
47.5000	+001.8	+001.7	+001.8	+001.8	+001.8	+001.8
48.1250	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
48.7500	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
49.3750	+001.7	+001.6	+001.7	+001.7	+001.7	+001.7
50.0000	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
50.6250	+001.7	+001.9	+001.8	+001.8	+001.8	+001.9
51.2500	+001.8	+001.9	+001.9	+001.9	+001.9	+001.9
51.8750	+002.0	+002.0	+002.0	+002.0	+002.0	+001.9
52.5000	+001.9	+002.0	+002.0	+002.0	+002.0	+002.0
53.1250	+002.0	+002.0	+002.0	+002.0	+002.0	+001.9
53.7500	+001.9	+001.9	+001.8	+001.9	+001.9	+001.8
54.3750	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
55.0000	+001.8	+001.8	+001.8	+001.8	+001.6	+001.6
55.6250	+001.6	+001.6	+001.6	+001.6	+001.6	+001.7
56.2500	+001.7	+001.7	+001.7	+001.7	+001.6	+001.7
56.8750	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
57.5000	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
58.1250	+001.7	+001.7	+001.8	+001.7	+001.7	+001.7
58.7500	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
59.3750	+001.7	+001.8	+001.8	+001.8	+001.8	+313.4

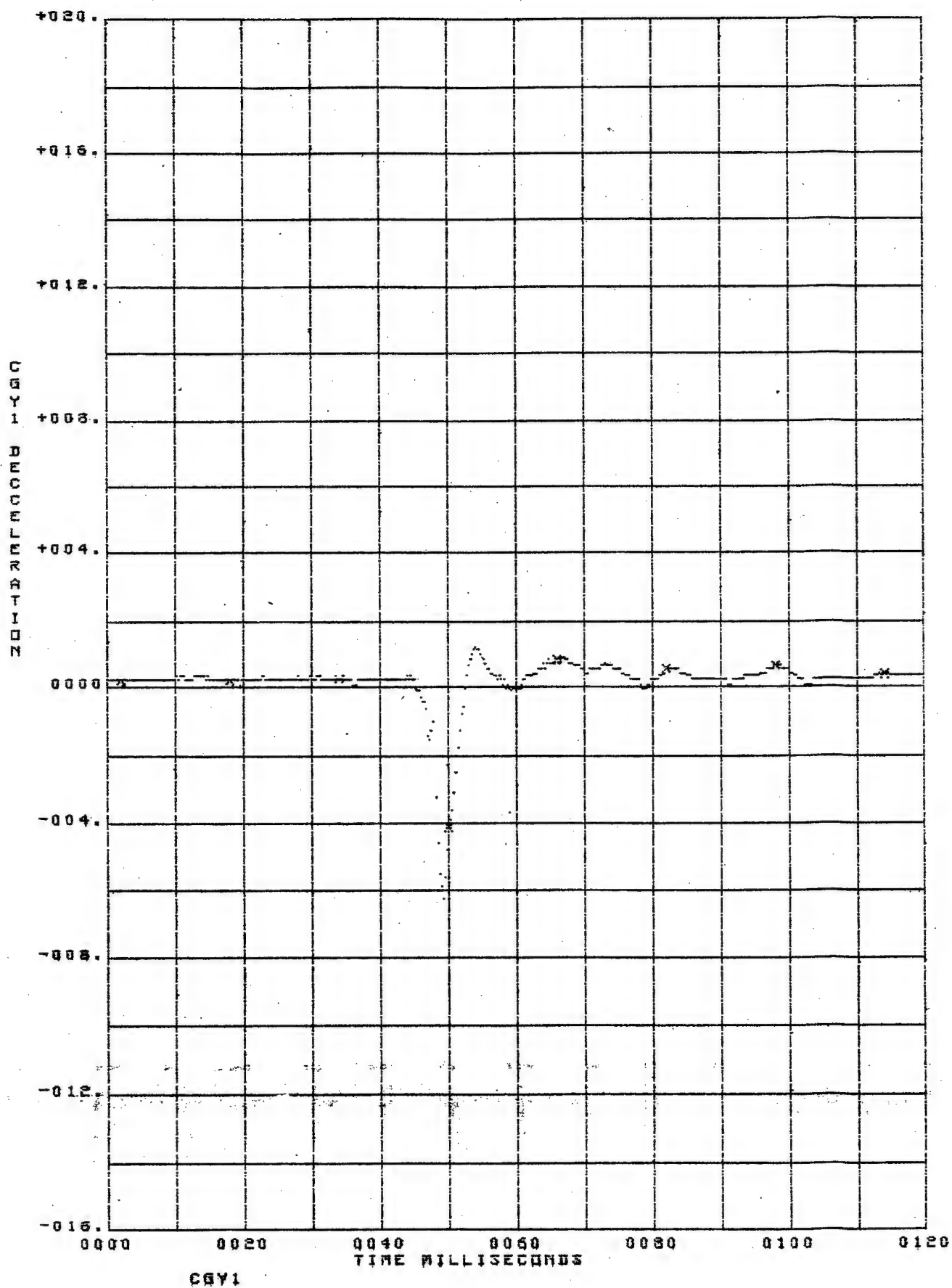
AMAX= +074.3

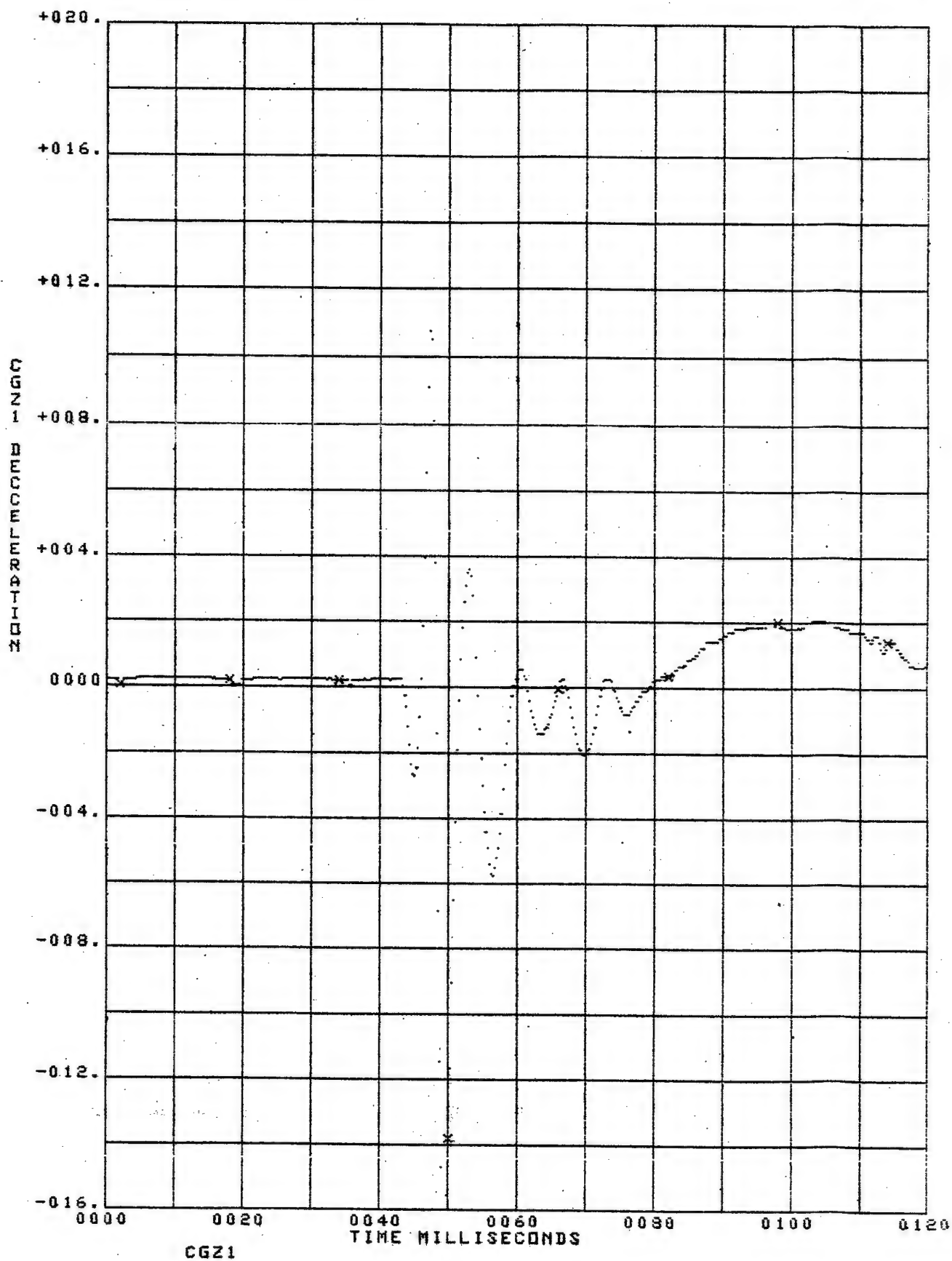
AT T=004.6

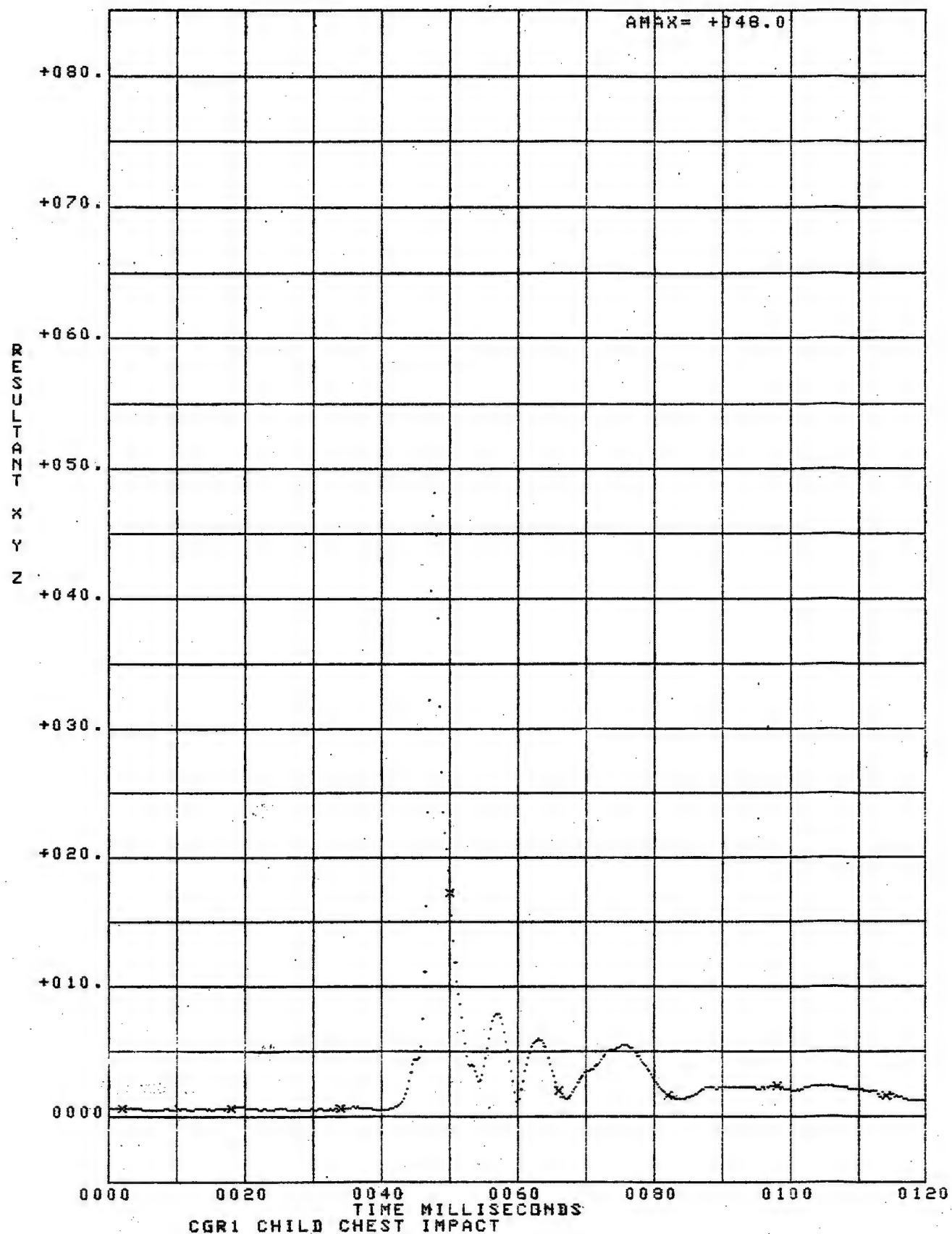
CHEST IMPACT
TRC NO. 315

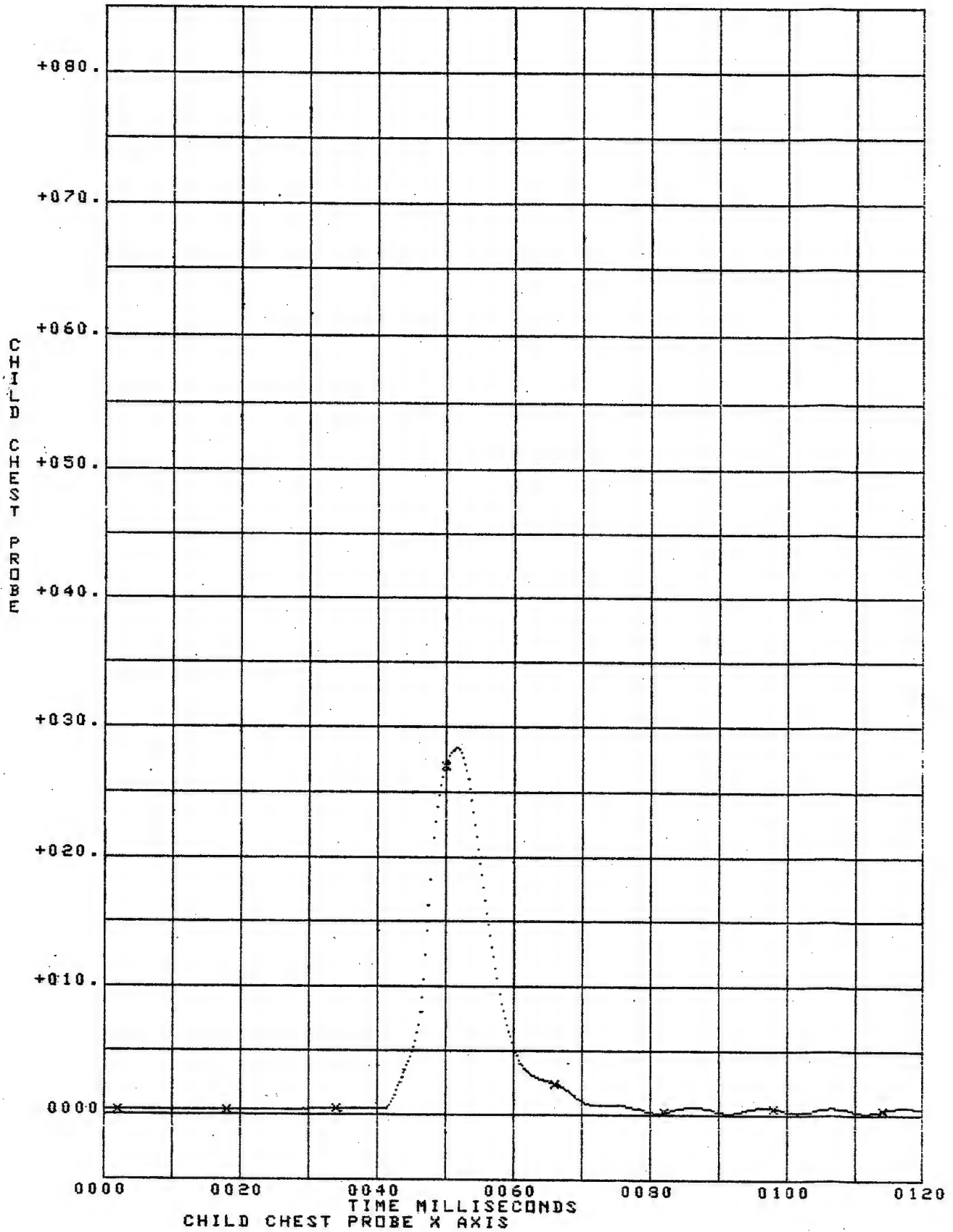
Chest Impact
Dummy No. 32, Run No. 6











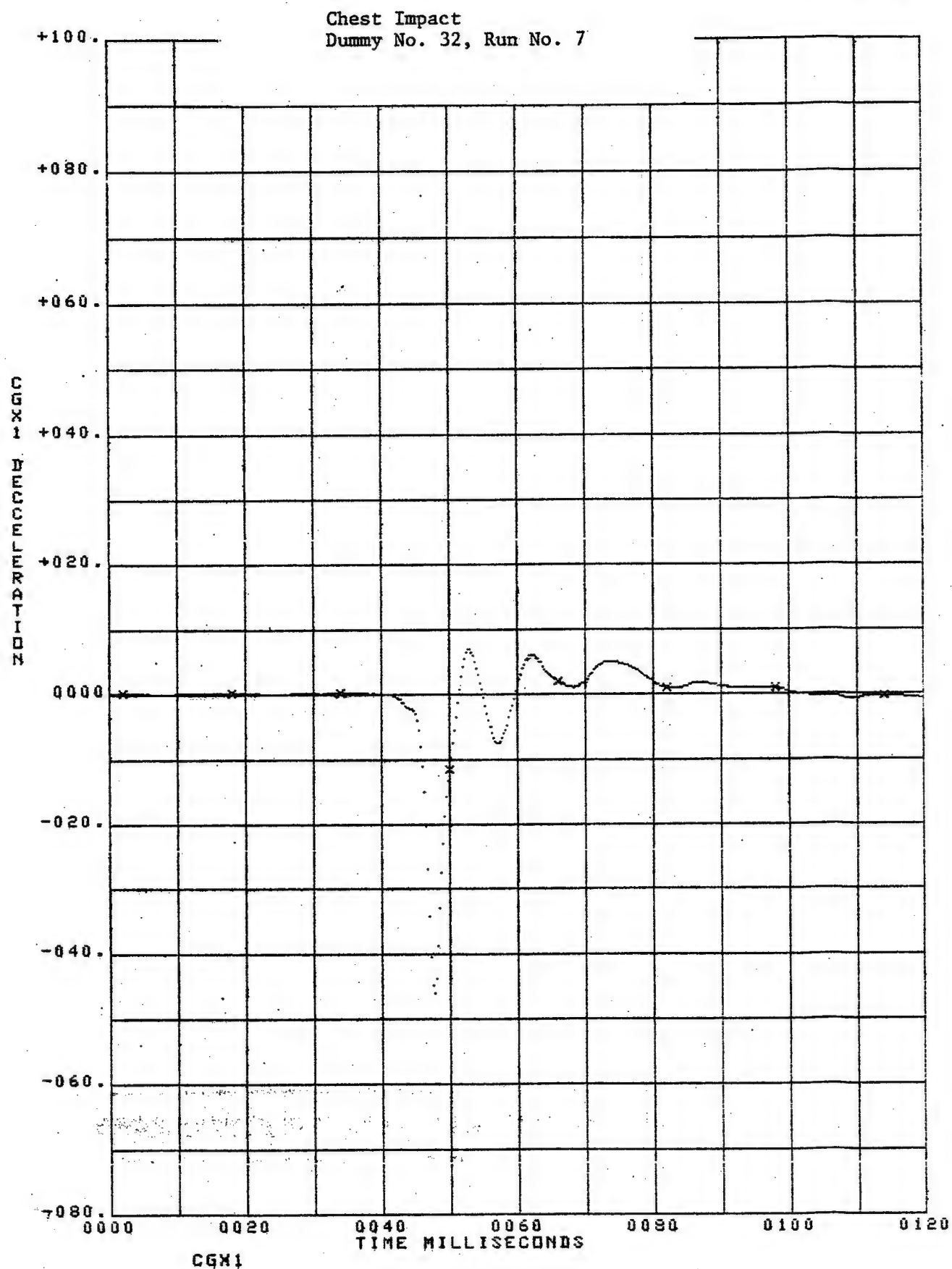
RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 TRC315

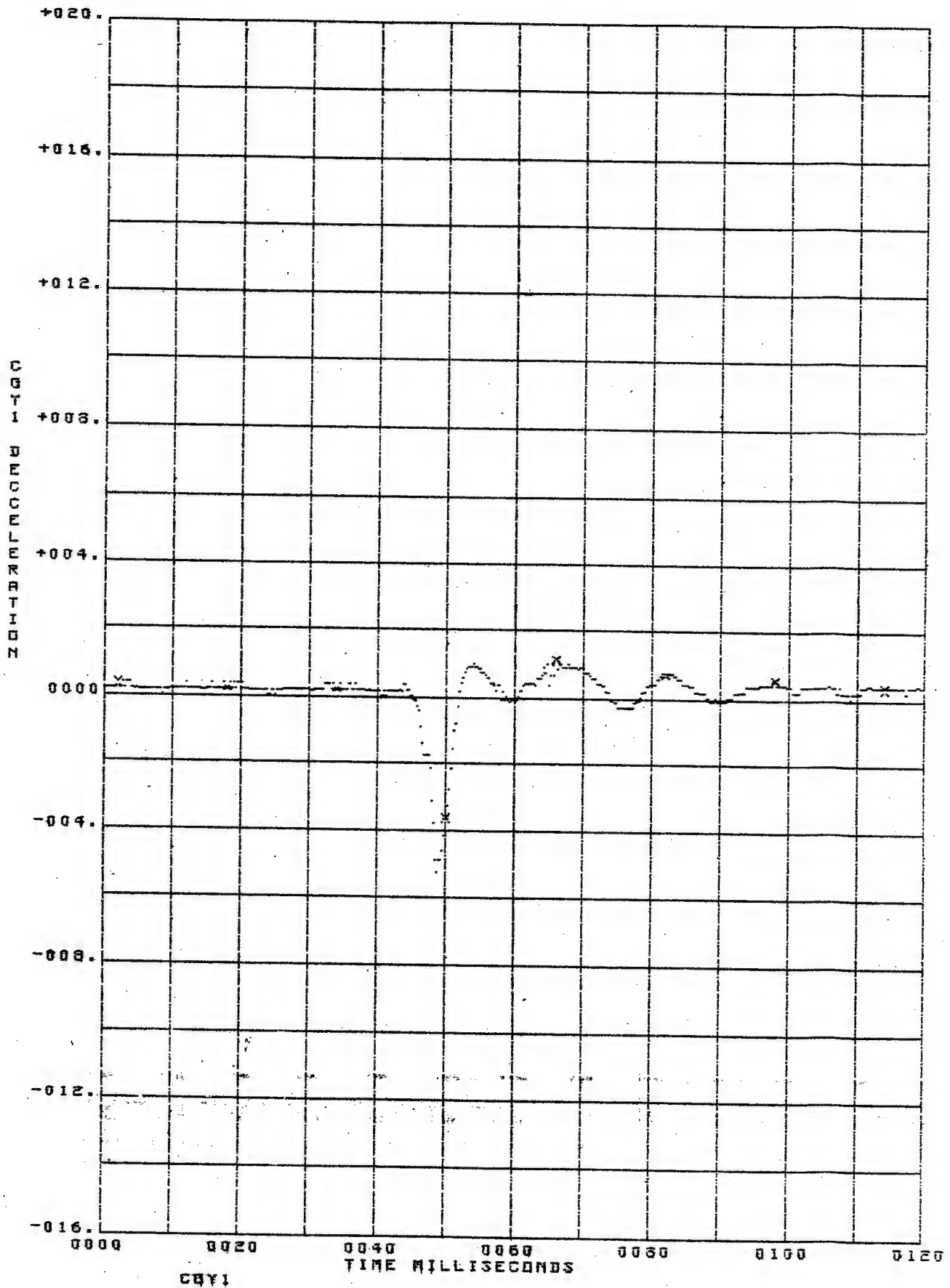
TIME					
0.00	+000.1	+000.1	+000.1	+000.1	+000.1
1.25	+000.1	+000.1	+000.2	+000.2	+000.2
2.50	+000.1	+000.1	+000.1	+000.1	+000.1
3.75	+000.1	+000.1	+000.1	+000.1	+000.0
5.00	+000.0	+000.0	+000.0	+000.0	+000.0
6.25	+000.0	+000.0	+000.0	+000.0	+000.0
7.50	+000.0	+000.0	+000.1	+000.1	+000.1
8.75	+000.0	+000.0	+000.0	+000.0	+000.0
10.00	+000.1	+000.0	+000.1	+000.1	+000.1
11.25	+000.0	+000.0	+000.0	+000.0	+000.0
12.50	+000.1	+000.1	+000.1	+000.1	+000.1
13.75	+000.1	+000.1	+000.0	+000.1	+000.0
15.00	+000.0	+000.0	+000.1	+000.1	+000.1
16.25	+000.1	+000.1	+000.0	+000.1	+000.1
17.50	+000.1	+000.1	+000.2	+000.3	+000.3
18.75	+000.3	+000.3	+000.3	+000.2	+000.1
20.00	+000.1	+000.1	+000.1	+000.1	+000.1
21.25	+000.1	+000.1	+000.0	+000.0	+000.0
22.50	+000.1	+000.1	+000.0	+000.0	+000.0
23.75	+000.0	+000.0	+000.1	+000.1	+000.1
25.00	+000.1	+000.1	+000.1	+000.1	+000.0
26.25	+000.0	+000.0	+000.0	+000.0	+000.0
27.50	+000.0	+000.1	+000.0	+000.0	+000.0
28.75	+000.0	+000.0	+000.0	+000.1	+000.1
30.00	+000.0	+000.0	+000.1	+000.1	+000.1
31.25	+000.0	+000.0	+000.0	+000.0	+000.1
32.50	+000.0	+000.0	+000.1	+000.1	+000.0
33.75	+000.1	+000.1	+000.1	+000.1	+000.1
35.00	+000.1	+000.2	+000.3	+000.3	+000.2
36.25	+000.3	+000.1	+000.1	+000.1	+000.1
37.50	+000.1	+000.1	+000.1	+000.1	+000.0
38.75	+000.0	+000.0	+000.0	+000.0	+000.0
40.00	+000.0	+000.0	+000.0	+000.0	+000.1
41.25	+000.1	+000.1	+000.2	+000.3	+000.4
42.50	+000.4	+000.7	+000.9	+001.3	+001.6
43.75	+002.2	+002.9	+003.5	+003.9	+003.9
45.00	+003.9	+004.0	+004.9	+007.0	+010.6
46.25	+015.8	+022.9	+031.7	+040.4	+046.2
47.50	+048.0	+044.6	+038.2	+031.3	+026.1
48.75	+022.9	+021.3	+020.1	+018.5	+016.7
50.00	+014.9	+013.0	+011.3	+009.9	+008.9
51.25	+008.1	+007.2	+006.1	+005.1	+004.1
52.50	+003.5	+003.4	+003.4	+003.3	+003.0
53.75	+002.6	+002.3	+002.4	+002.8	+003.3
55.00	+004.1	+004.8	+005.5	+006.2	+006.8
56.25	+007.2	+007.4	+007.4	+007.4	+007.1
57.50	+006.6	+006.0	+005.3	+004.6	+003.8
58.75	+002.9	+002.3	+001.4	+000.7	+000.3
60.00	+000.9	+001.6	+002.2	+002.9	+003.5
61.25	+004.0	+004.4	+004.9	+005.1	+005.3
62.50	+005.4	+005.5	+005.4	+005.3	+005.1
63.75	+004.9	+004.5	+004.0	+003.5	+003.0
65.00	+002.6	+002.1	+001.7	+001.5	+001.1
66.25	+001.0	+001.0	+001.0	+000.9	+001.0
67.50	+001.2	+001.4	+001.7	+001.8	+002.1
68.75	+002.3	+002.5	+002.6	+002.8	+002.9
70.00	+003.0	+003.0	+003.1	+003.1	+003.3
71.25	+003.4	+003.6	+003.7	+003.9	+004.1
72.50	+004.3	+004.5	+004.5	+004.6	+004.7
73.75	+004.7	+004.7	+004.8	+004.8	+004.9

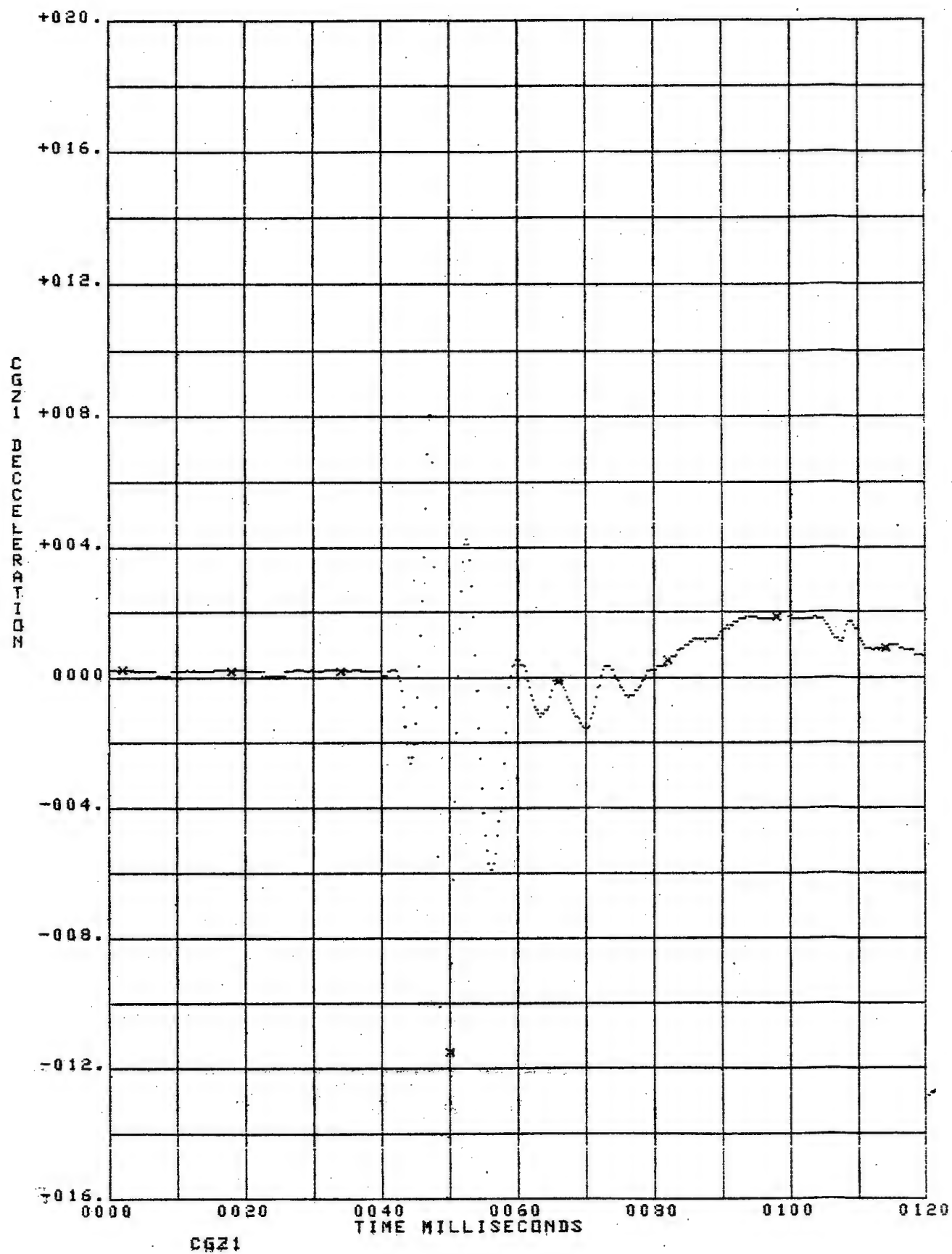
RESULTANT (CGR1)	OF CGX1	CGY1	CGZ1	TRC315	
75.00	+005.0	+005.0	+005.0	+005.0	+004.9
76.25	+004.7	+004.7	+004.5	+004.4	+004.2
77.50	+004.1	+003.9	+003.7	+003.5	+003.3
78.75	+003.2	+002.9	+002.7	+002.5	+002.3
80.00	+002.1	+002.0	+001.7	+001.7	+001.6
81.25	+001.4	+001.3	+001.2	+001.1	+001.0
82.50	+001.0	+001.0	+000.9	+000.9	+000.9
83.75	+000.9	+000.9	+000.9	+001.0	+001.0
85.00	+001.0	+001.1	+001.2	+001.3	+001.3
86.25	+001.4	+001.5	+001.6	+001.6	+001.7
87.50	+001.7	+001.7	+001.7	+001.7	+001.7
88.75	+001.7	+001.7	+001.8	+001.8	+001.8
90.00	+001.8	+001.8	+001.8	+001.8	+001.8
91.25	+001.7	+001.8	+001.8	+001.8	+001.8
92.50	+001.8	+001.7	+001.7	+001.8	+001.8
93.75	+001.8	+001.8	+001.7	+001.7	+001.7
95.00	+001.7	+001.7	+001.7	+001.8	+001.7
96.25	+001.8	+001.8	+001.8	+001.8	+001.8
97.50	+001.8	+001.8	+001.7	+001.7	+001.7
98.75	+001.7	+001.6	+001.6	+001.6	+001.6
100.00	+001.6	+001.6	+001.6	+001.7	+001.6
101.25	+001.6	+001.6	+001.8	+001.8	+001.8
102.50	+001.8	+001.8	+001.8	+001.8	+001.8
103.75	+001.9	+001.9	+001.9	+001.9	+001.9
105.00	+001.9	+001.9	+001.9	+001.9	+001.8
106.25	+001.8	+001.8	+001.8	+001.8	+001.8
107.50	+001.8	+001.8	+001.8	+001.7	+001.7
108.75	+001.7	+001.7	+001.7	+001.7	+001.6
110.00	+001.6	+001.6	+001.6	+001.5	+001.5
111.25	+001.4	+001.5	+001.6	+001.6	+001.5
112.50	+001.3	+001.0	+001.0	+000.9	+001.0
113.75	+001.2	+001.2	+001.3	+001.2	+001.3
115.00	+001.1	+001.1	+001.0	+001.0	+001.0
116.25	+000.9	+000.9	+000.9	+000.8	+000.8
117.50	+000.8	+000.7	+000.7	+000.7	+000.7
118.75	+000.7	+000.7	+000.8	+000.8	+313.4

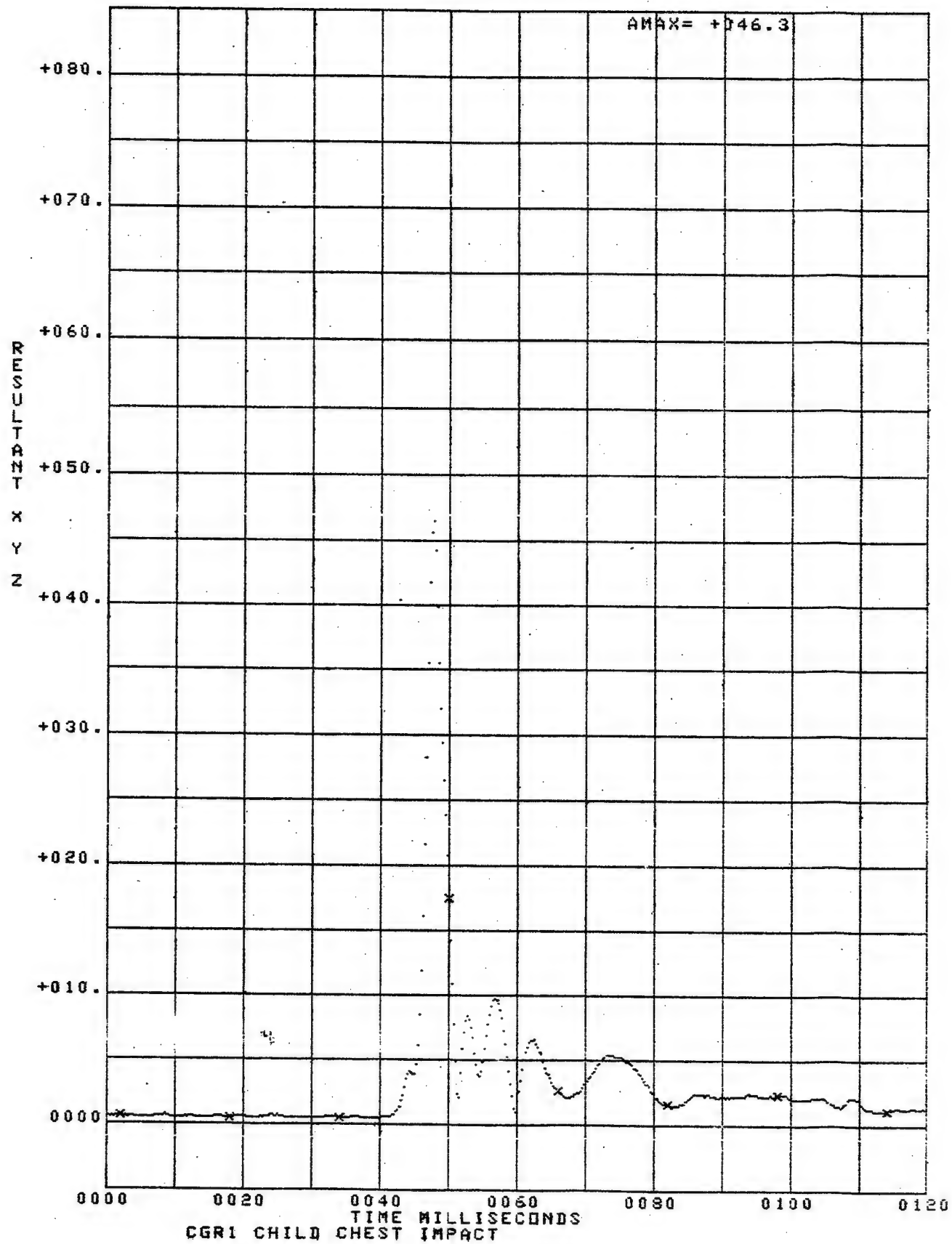
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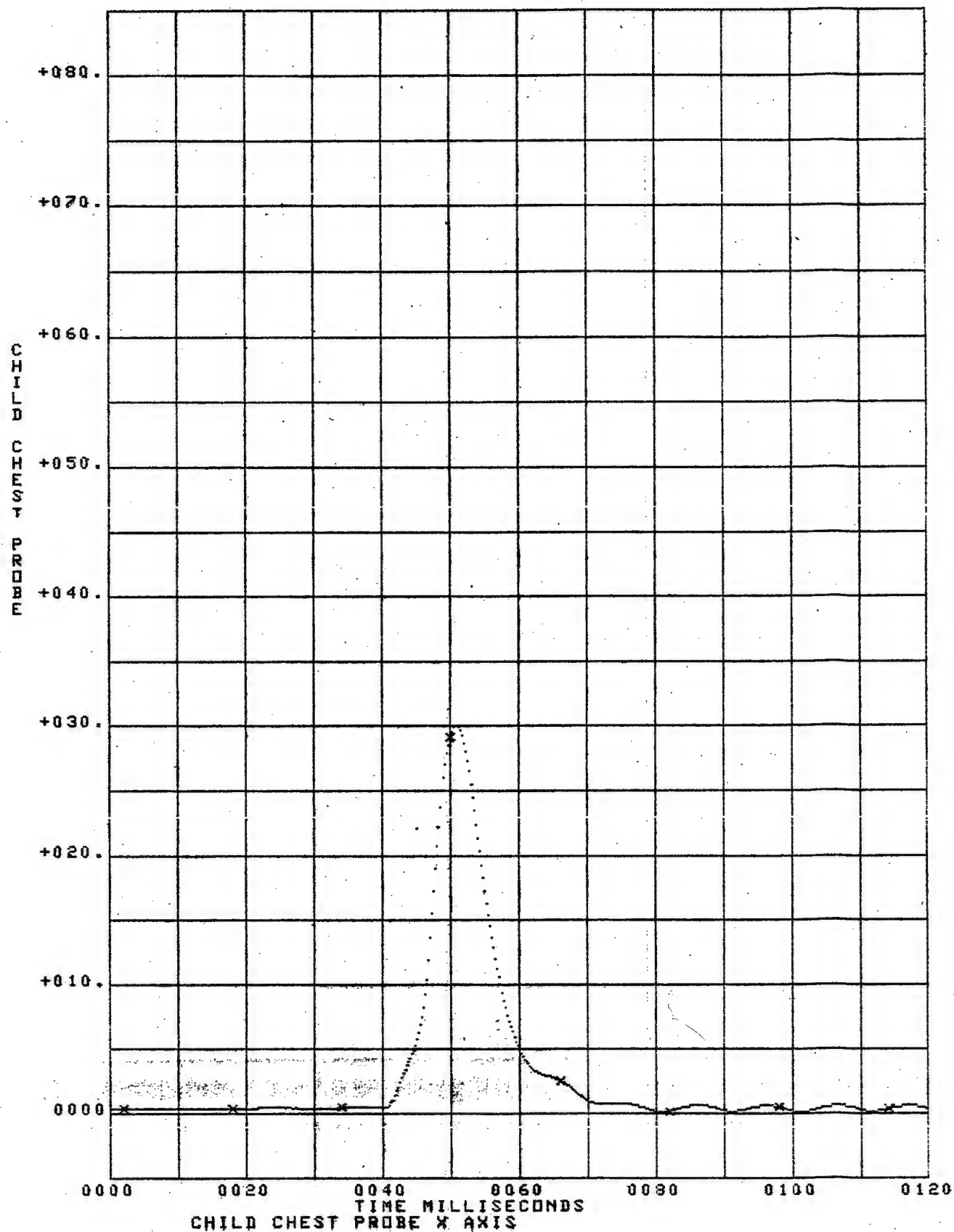
AT T=047.5











RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 TRC314

TIME					
0.00	+000.1	+000.0	+000.1	+000.0	+000.1
1.25	+000.1	+000.1	+000.1	+000.1	+000.0
2.50	+000.1	+000.0	+000.1	+000.1	+000.1
3.75	+000.0	+000.0	+000.0	+000.0	+000.0
5.00	+000.0	+000.0	+000.0	+000.0	+000.0
6.25	+000.0	+000.0	+000.1	+000.2	+000.1
7.50	+000.1	+000.1	+000.2	+000.2	+000.1
8.75	+000.1	+000.0	+000.0	+000.0	+000.0
10.00	+000.0	+000.0	+000.0	+000.0	+000.0
11.25	+000.1	+000.0	+000.1	+000.1	+000.1
12.50	+000.0	+000.0	+000.0	+000.0	+000.0
13.75	+000.0	+000.0	+000.0	+000.0	+000.0
15.00	+000.0	+000.0	+000.1	+000.1	+000.1
16.25	+000.1	+000.1	+000.0	+000.0	+000.0
17.50	+000.1	+000.0	+000.0	+000.0	+000.1
18.75	+000.1	+000.1	+000.1	+000.1	+000.1
20.00	+000.1	+000.0	+000.0	+000.0	+000.0
21.25	+000.0	+000.0	+000.0	+000.0	+000.1
22.50	+000.0	+000.1	+000.1	+000.1	+000.1
23.75	+000.2	+000.2	+000.2	+000.2	+000.2
25.00	+000.1	+000.1	+000.1	+000.0	+000.0
26.25	+000.0	+000.0	+000.0	+000.0	+000.0
27.50	+000.0	+000.0	+000.0	+000.0	+000.0
28.75	+000.0	+000.0	+000.0	+000.0	+000.0
30.00	+000.0	+000.0	+000.0	+000.0	+000.0
31.25	+000.0	+000.0	+000.1	+000.1	+000.1
32.50	+000.1	+000.1	+000.1	+000.1	+000.0
33.75	+000.0	+000.0	+000.0	+000.0	+000.0
35.00	+000.0	+000.0	+000.1	+000.1	+000.1
36.25	+000.1	+000.1	+000.0	+000.0	+000.0
37.50	+000.0	+000.0	+000.0	+000.0	+000.0
38.75	+000.0	+000.0	+000.0	+000.0	+000.0
40.00	+000.1	+000.2	+000.2	+000.1	+000.2
41.25	+000.1	+000.2	+000.3	+000.4	+000.7
42.50	+001.0	+001.4	+001.8	+002.4	+002.9
43.75	+003.4	+003.6	+003.5	+003.4	+003.4
45.00	+004.1	+005.6	+008.0	+011.3	+015.6 τ_1
46.25	+021.0	+027.8	+035.2	+041.5	+045.4
47.50	+046.3	+044.0	+039.5	+035.0	+031.6 τ_2
48.75	+028.9	+026.0	+023.3	+020.2	+017.0
50.00	+013.7	+010.4	+007.3	+004.4	+001.9
51.25	+001.7	+003.5	+005.4	+006.7	+007.5
52.50	+007.8	+007.6	+007.0	+006.2	+005.0
53.75	+004.1	+003.4	+003.3	+003.7	+004.4
55.00	+005.4	+006.3	+007.2	+008.0	+008.6
56.25	+009.0	+009.2	+009.0	+009.8	+008.4
57.50	+007.7	+006.9	+005.7	+004.8	+003.6
58.75	+002.6	+001.7	+000.8	+000.5	+001.3
60.00	+002.1	+002.9	+003.8	+004.5	+005.1
61.25	+005.5	+005.8	+006.0	+006.0	+006.1
62.50	+005.8	+005.5	+005.2	+005.0	+004.4
63.75	+003.9	+003.6	+003.4	+003.1	+002.7
65.00	+002.5	+002.4	+002.2	+002.2	+002.0
66.25	+001.9	+001.8	+001.7	+001.6	+001.7
67.50	+001.6	+001.8	+001.8	+001.9	+002.0
68.75	+002.0	+002.1	+002.4	+002.6	+002.8
70.00	+002.8	+003.1	+003.2	+003.4	+003.6
71.25	+003.9	+004.1	+004.3	+004.5	+004.6
72.50	+004.8	+004.8	+004.8	+004.8	+004.8
73.75	+004.9	+004.8	+004.8	+004.8	+004.7

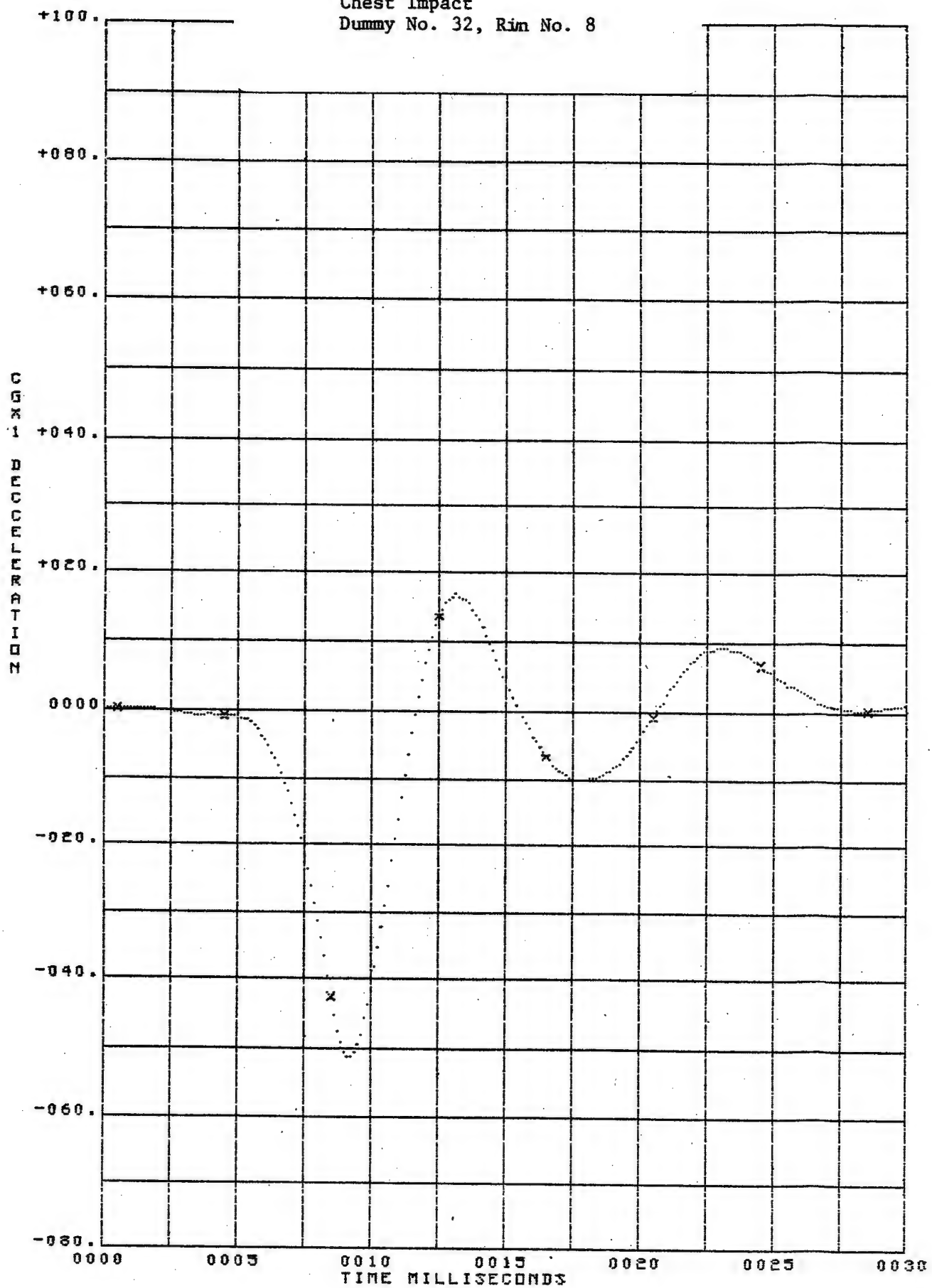
RESULTANT (CGR1)	OF CGX1	CGY1	CGZ1	TRC314	
75.00	+004.7	+004.6	+004.6	+004.4	+004.4
76.25	+004.3	+004.2	+003.9	+003.9	+003.7
77.50	+003.5	+003.3	+003.2	+002.9	+002.7
78.75	+002.6	+002.5	+002.2	+002.1	+001.8
80.00	+001.7	+001.5	+001.4	+001.3	+001.1
81.25	+001.1	+001.2	+001.1	+001.0	+001.1
82.50	+001.1	+001.1	+001.0	+001.0	+001.1
83.75	+001.1	+001.1	+001.4	+001.4	+001.5
85.00	+001.6	+001.7	+001.8	+001.9	+001.9
86.25	+001.9	+001.9	+001.9	+001.9	+001.8
87.50	+001.8	+001.8	+001.8	+001.8	+001.8
88.75	+001.7	+001.7	+001.7	+001.7	+001.7
90.00	+001.8	+001.7	+001.8	+001.6	+001.7
91.25	+001.7	+001.7	+001.7	+001.7	+001.8
92.50	+001.8	+001.8	+001.8	+001.9	+002.0
93.75	+001.9	+001.9	+001.9	+001.9	+001.9
95.00	+001.8	+001.8	+001.8	+001.8	+001.8
96.25	+001.8	+001.8	+001.9	+001.8	+001.8
97.50	+001.9	+001.9	+001.8	+001.9	+001.9
98.75	+001.9	+001.8	+001.8	+001.7	+001.6
100.00	+001.6	+001.6	+001.6	+001.6	+001.6
101.25	+001.6	+001.6	+001.6	+001.6	+001.6
102.50	+001.6	+001.6	+001.6	+001.7	+001.7
103.75	+001.6	+001.6	+001.6	+001.6	+001.5
105.00	+001.4	+001.4	+001.3	+001.2	+001.1
106.25	+001.0	+001.0	+001.0	+001.0	+001.0
107.50	+001.1	+001.3	+001.6	+001.7	+001.7
108.75	+001.7	+001.7	+001.5	+001.5	+001.4
110.00	+001.2	+001.0	+000.9	+000.8	+000.8
111.25	+000.8	+000.7	+000.7	+000.7	+000.7
112.50	+000.7	+000.7	+000.7	+000.7	+000.7
113.75	+000.7	+000.7	+000.8	+000.8	+000.8
115.00	+000.9	+000.9	+000.9	+000.8	+000.8
116.25	+000.8	+000.7	+000.7	+000.7	+000.9
117.50	+000.9	+000.9	+000.8	+000.8	+000.8
118.75	+000.8	+000.9	+000.8	+000.8	+313.4

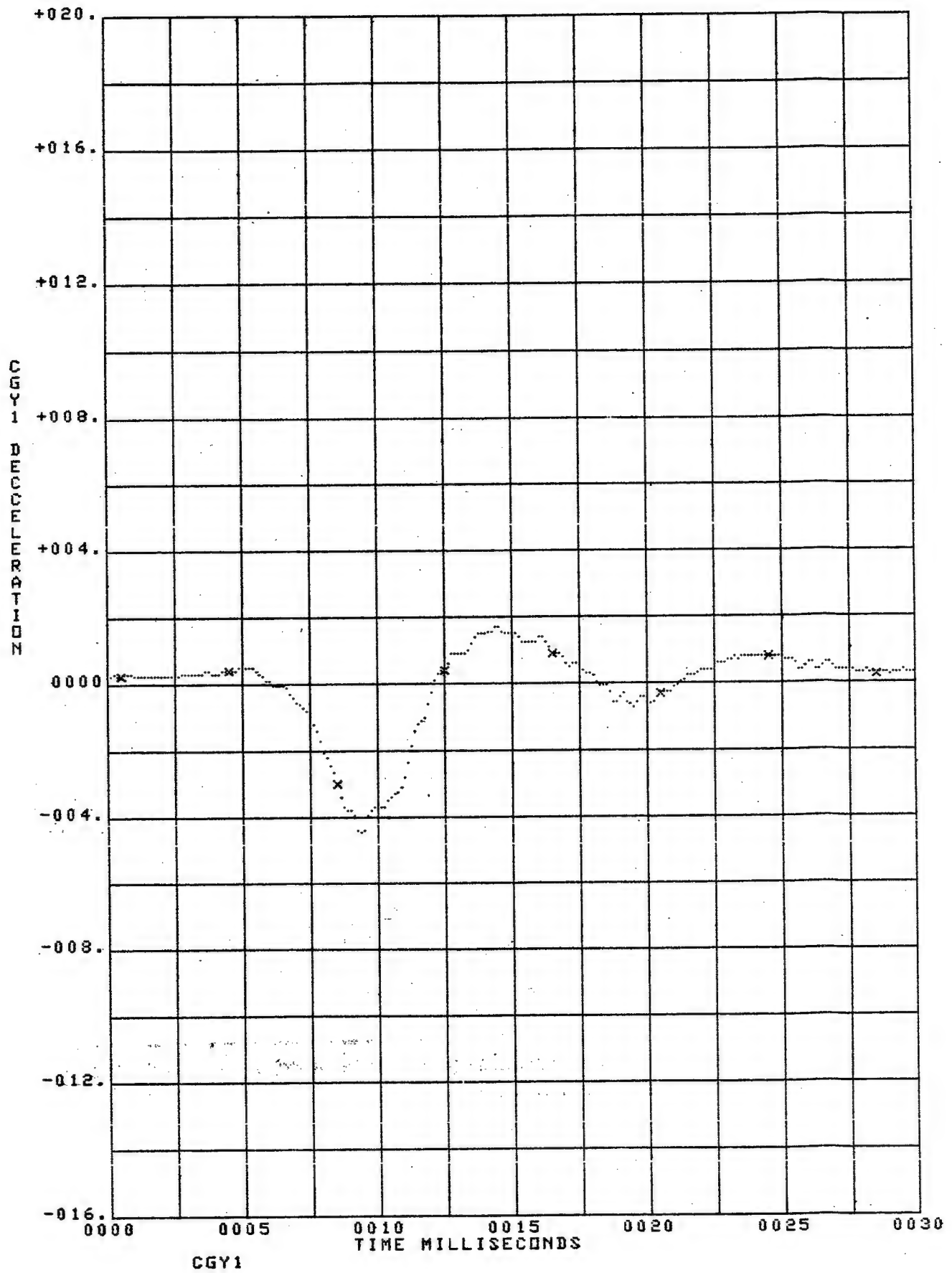
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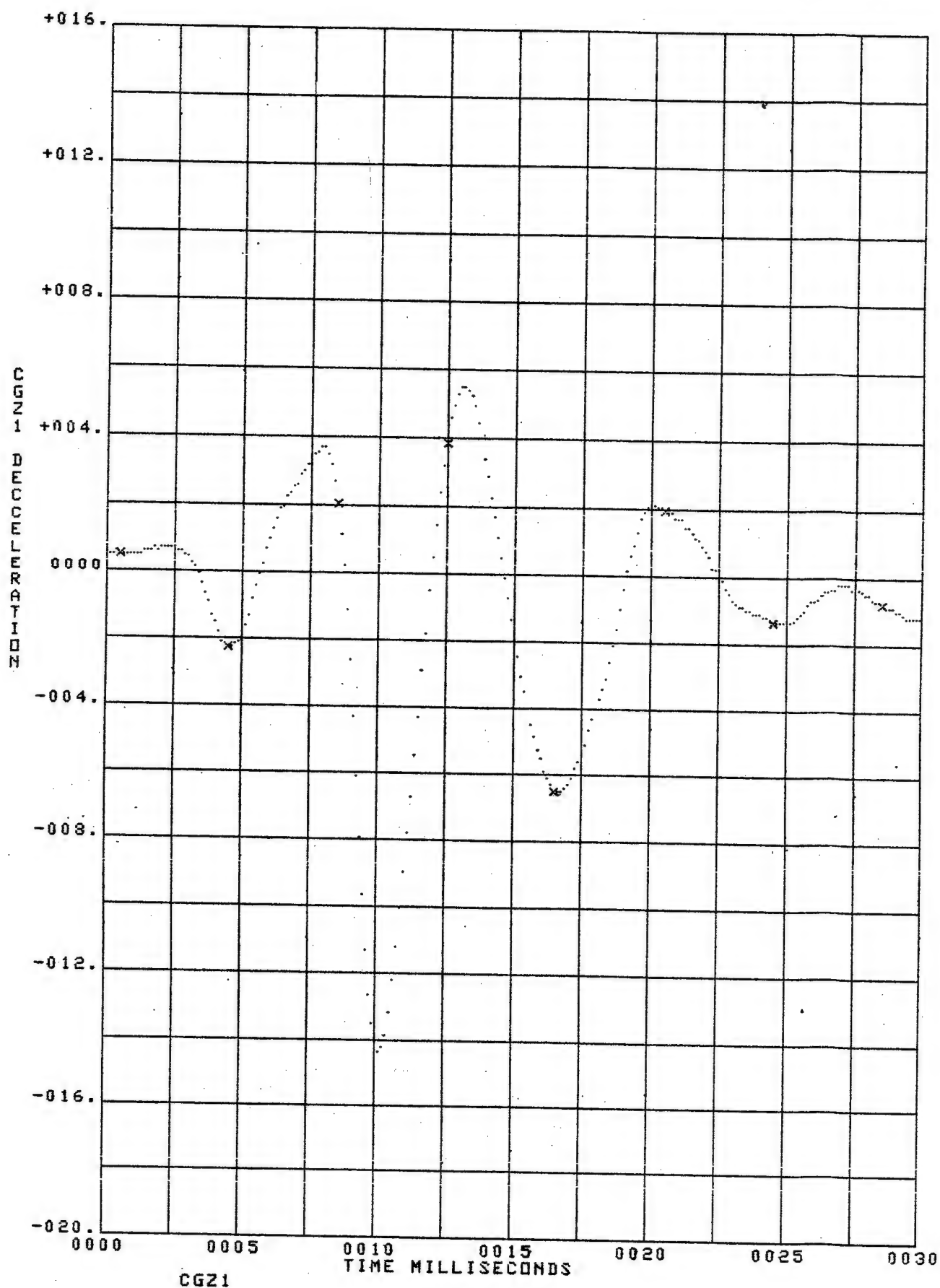
AT T=047.5

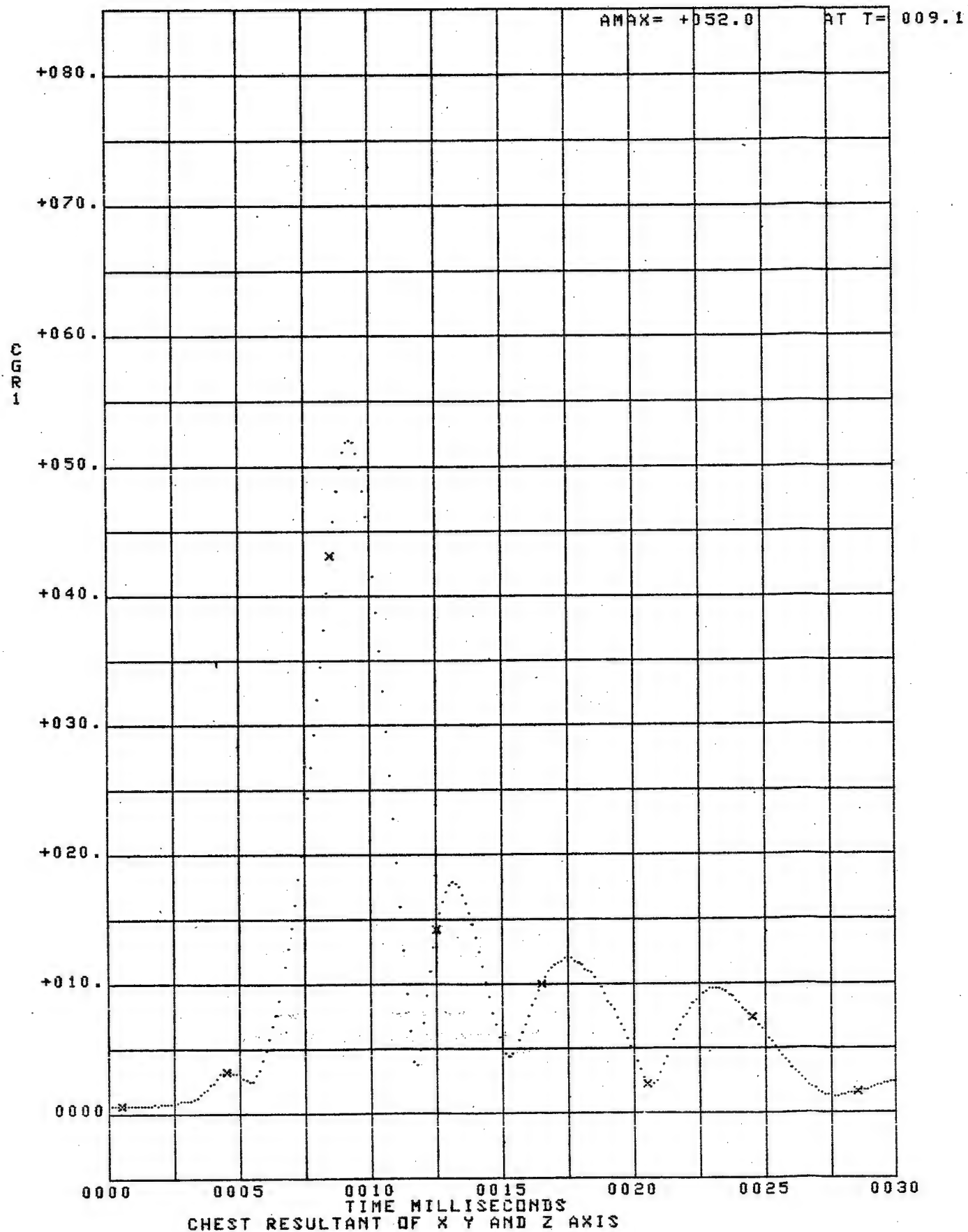
CHEST IMPACT
TEST C004

Chest Impact
Dummy No. 32, Rim No. 8









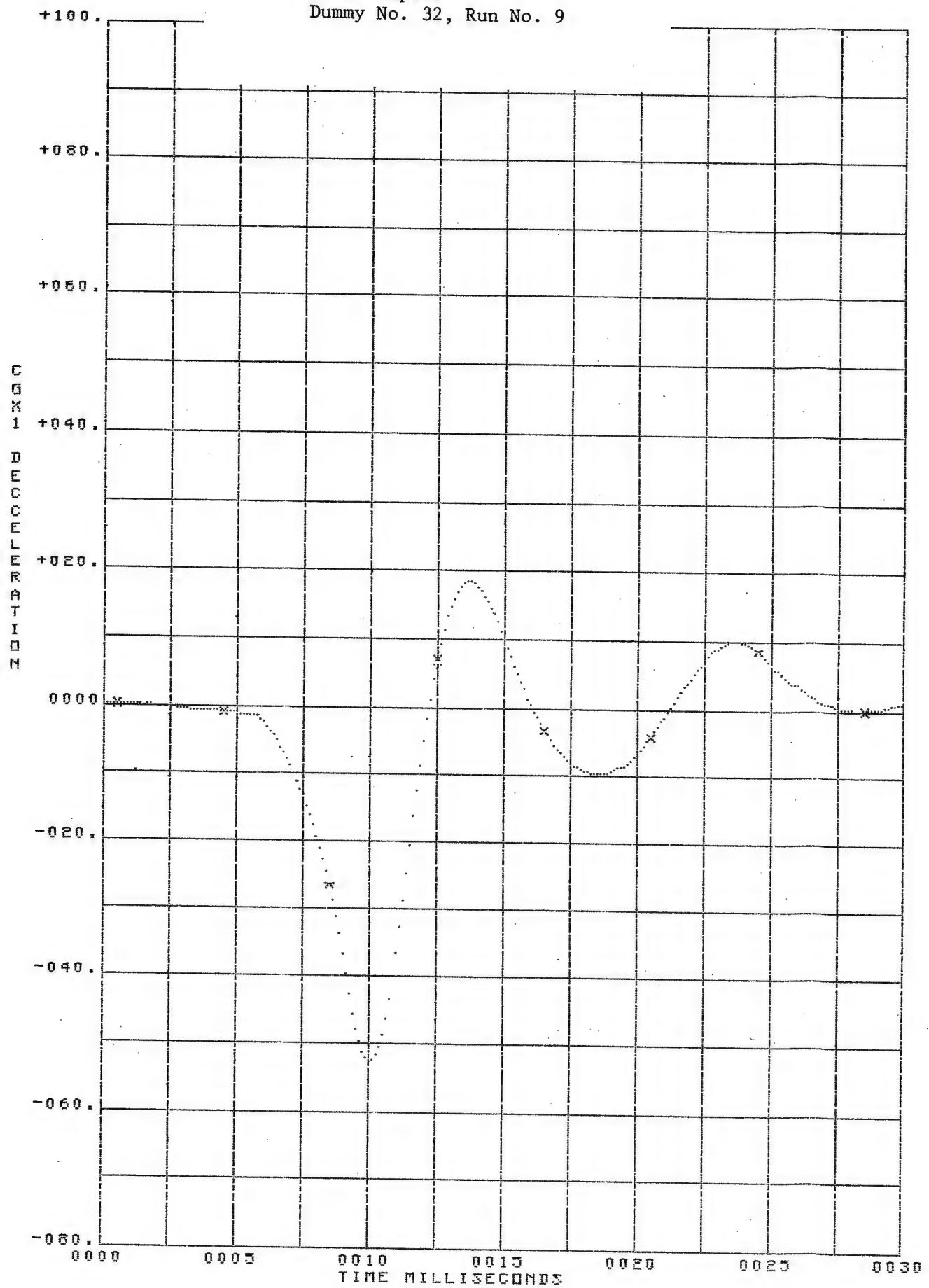
RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C004

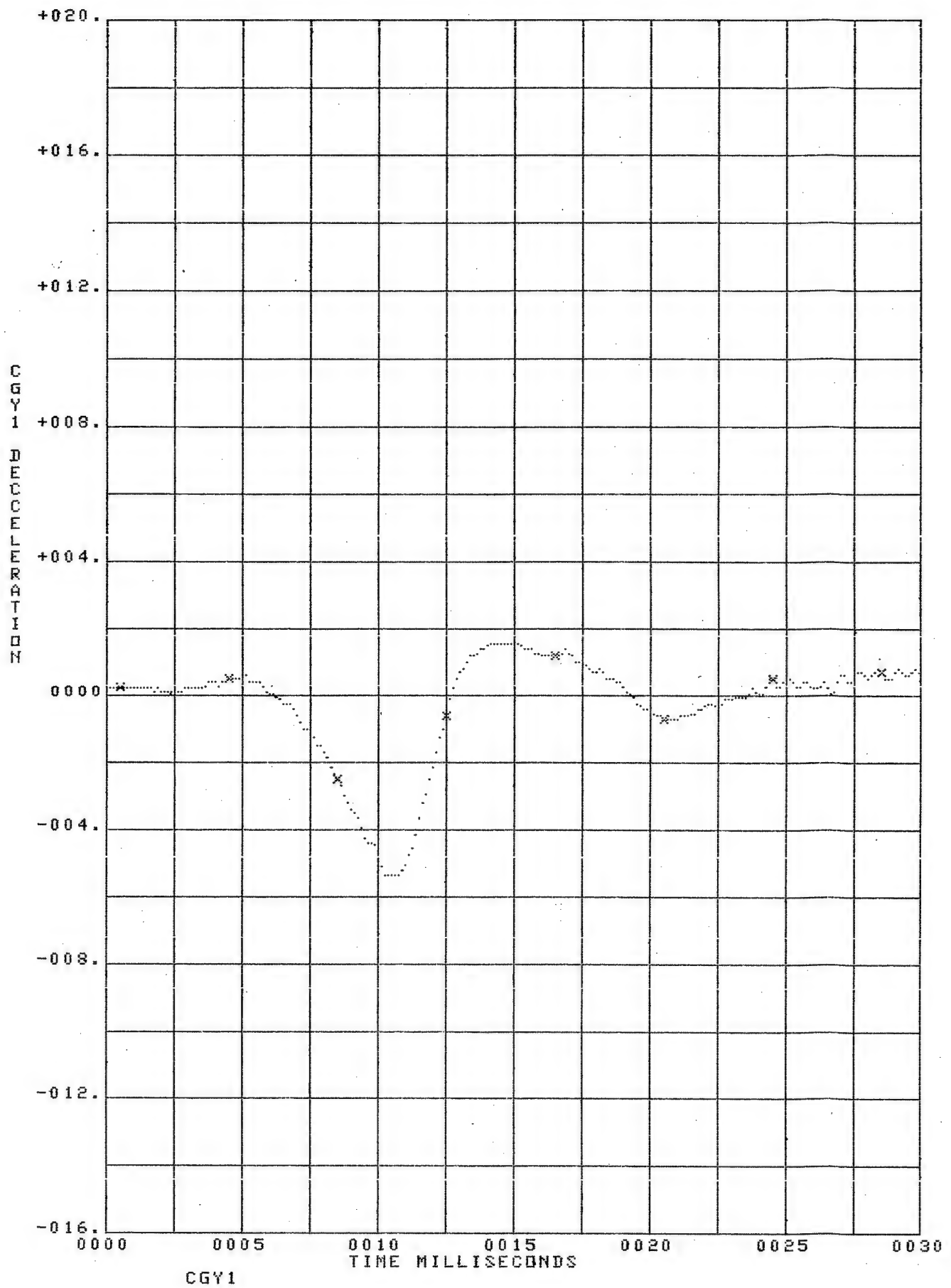
TIME					
0.0000	+000.1	+000.1	+000.2	+000.1	+000.2
0.6250	+000.2	+000.2	+000.1	+000.1	+000.1
1.2500	+000.2	+000.2	+000.2	+000.3	+000.2
1.8750	+000.3	+000.3	+000.3	+000.3	+000.3
2.5000	+000.3	+000.5	+000.4	+000.4	+000.6
3.1250	+000.7	+000.8	+001.0	+001.3	+001.4
3.7500	+001.8	+001.9	+002.3	+002.6	+002.6
4.3750	+002.8	+002.8	+002.6	+002.7	+002.5
5.0000	+002.3	+002.1	+002.0	+002.0	+002.5
5.6250	+002.9	+003.6	+004.4	+005.2	+006.2
6.2500	+007.2	+008.3	+009.4	+010.8	+012.2
6.8750	+013.8	+015.6	+017.5	+019.3	+021.4
7.5000	+023.8	+026.2	+028.8	+031.5	+034.1
8.1250	+037.1	+040.0	+042.9	+045.6	+047.9
8.7500	+049.7	+051.1	+051.7	+052.0	+051.7
9.3750	+050.9	+049.6	+048.0	+046.0	+043.8
10.0000	+041.2	+038.5	+035.4	+032.3	+029.0
10.6250	+025.6	+022.2	+018.8	+015.5	+012.1
11.2500	+008.7	+005.9	+003.6	+003.2	+004.4
11.8750	+006.5	+008.6	+010.5	+012.3	+013.7
12.5000	+015.0	+015.9	+016.6	+017.1	+017.3
13.1250	+017.2	+016.9	+016.4	+015.8	+014.9
13.7500	+014.0	+013.1	+012.0	+010.8	+009.6
14.3750	+008.4	+007.2	+006.3	+005.4	+004.6
15.0000	+004.2	+004.1	+004.2	+004.6	+005.1
15.6250	+005.7	+006.4	+007.0	+007.8	+008.4
16.2500	+008.9	+009.5	+010.0	+010.4	+010.7
16.8750	+010.9	+011.1	+011.2	+011.5	+011.4
17.5000	+011.4	+011.2	+011.1	+010.9	+010.7
18.1250	+010.4	+010.3	+010.0	+009.6	+009.2
18.7500	+008.7	+008.2	+007.8	+007.5	+006.9
19.3750	+006.4	+005.8	+005.3	+004.7	+004.1
20.0000	+003.5	+002.8	+002.3	+001.8	+001.5
20.6250	+001.8	+002.1	+002.6	+003.3	+003.9
21.2500	+004.5	+005.1	+005.8	+006.3	+006.9
21.8750	+007.2	+007.6	+008.0	+008.3	+008.6
22.5000	+008.7	+008.9	+009.0	+009.0	+009.1
23.1250	+009.1	+009.0	+008.8	+008.6	+008.5
23.7500	+008.2	+008.0	+007.7	+007.4	+007.1
24.3750	+006.8	+006.6	+006.2	+005.9	+005.7
25.0000	+005.3	+005.0	+004.6	+004.3	+004.0
25.6250	+003.7	+003.3	+003.0	+002.7	+002.5
26.2500	+002.2	+002.0	+001.7	+001.5	+001.4
26.8750	+001.2	+001.0	+000.9	+000.9	+000.8
27.5000	+000.8	+000.8	+001.0	+000.9	+001.0
28.1250	+001.1	+001.1	+001.2	+001.3	+001.3
28.7500	+001.3	+001.4	+001.5	+001.6	+001.7
29.3750	+001.8	+001.8	+001.8	+001.9	+002.1
30.0000	+002.1	+002.2	+002.2	+002.3	+002.4
30.6250	+002.5	+002.6	+002.6	+002.7	+002.7
31.2500	+002.8	+002.9	+002.9	+003.0	+003.1
31.8750	+003.1	+003.2	+003.2	+003.3	+003.3
32.5000	+003.5	+003.5	+003.5	+003.6	+003.8
33.1250	+003.8	+003.8	+003.9	+003.9	+004.0
33.7500	+004.0	+004.1	+004.3	+004.3	+004.3
34.3750	+004.4	+004.5	+004.5	+004.6	+004.6
35.0000	+004.7	+004.7	+004.7	+004.7	+004.8
35.6250	+004.8	+004.9	+004.9	+004.9	+005.0
36.2500	+005.0	+005.0	+005.0	+005.1	+005.1
36.8750	+005.1	+005.1	+005.1	+005.1	+005.1

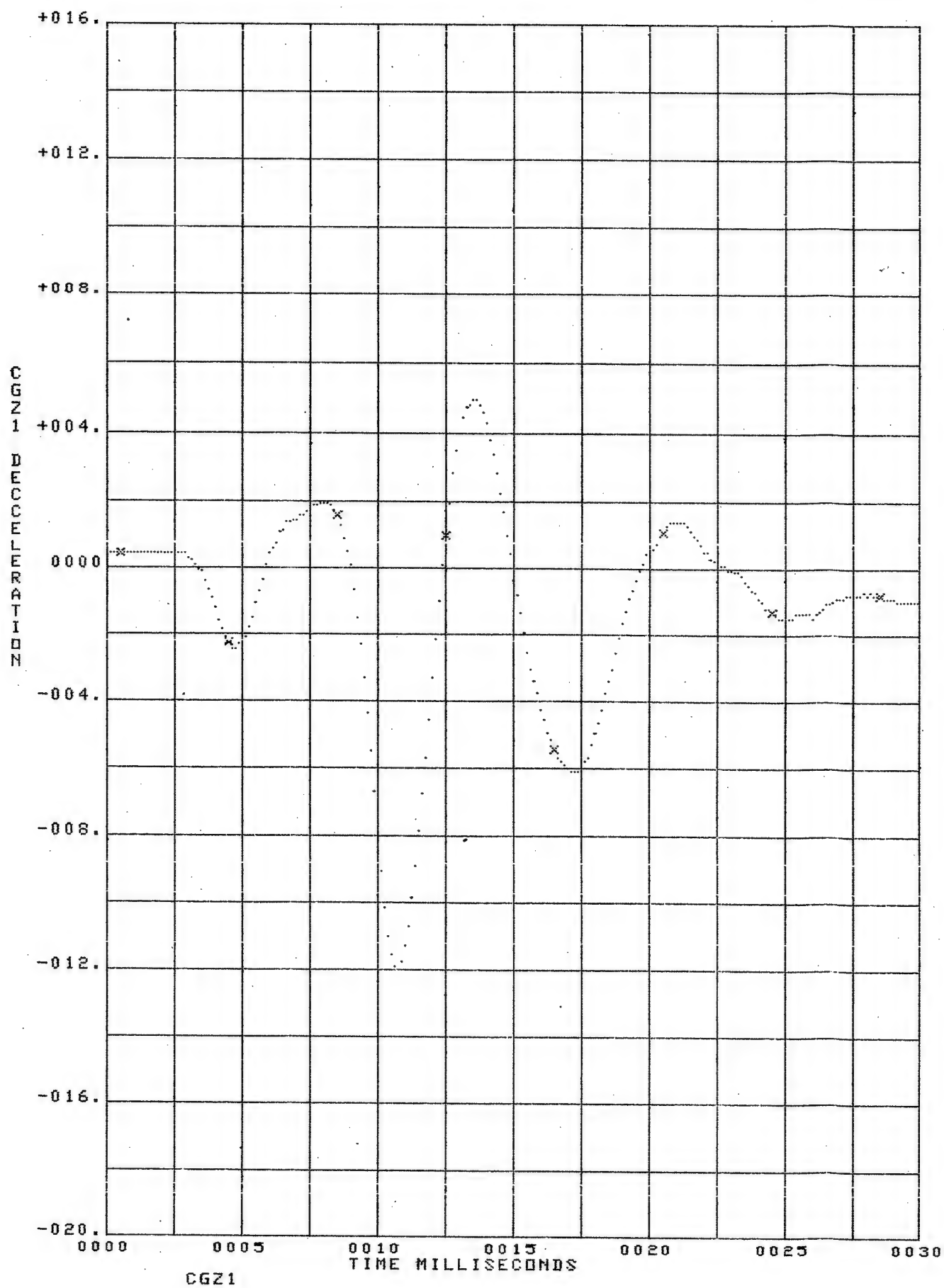
RESULTANT (CGR1) BF	CGX1	CGY1	CGZ1	C004	
37.5000	+005.1	+005.0	+005.0	+005.0	+005.0
38.1250	+004.9	+004.9	+004.8	+004.6	+004.6
38.7500	+004.6	+004.6	+004.5	+004.5	+004.4
39.3750	+004.3	+004.3	+004.2	+004.1	+004.1
40.0000	+003.9	+003.9	+003.8	+003.7	+003.6
40.6250	+003.5	+003.4	+003.3	+003.2	+003.1
41.2500	+003.0	+002.9	+002.8	+002.8	+002.7
41.8750	+002.7	+002.5	+002.5	+002.4	+002.3
42.5000	+002.2	+002.2	+002.2	+002.1	+002.0
43.1250	+002.0	+002.0	+001.9	+001.8	+001.8
43.7500	+001.8	+001.9	+001.9	+001.9	+001.9
44.3750	+001.9	+001.8	+001.9	+001.8	+001.8
45.0000	+001.9	+001.8	+001.8	+001.8	+001.8
45.6250	+001.8	+001.7	+001.8	+001.8	+001.8
46.2500	+001.8	+001.8	+001.8	+001.8	+001.8
46.8750	+001.8	+001.9	+002.0	+002.0	+002.0
47.5000	+002.1	+002.1	+002.2	+002.2	+002.2
48.1250	+002.2	+002.2	+002.2	+002.4	+002.4
48.7500	+002.4	+002.5	+002.5	+002.5	+002.5
49.3750	+002.5	+002.5	+002.5	+002.6	+002.6
50.0000	+002.6	+002.6	+002.6	+002.6	+002.6
50.6250	+002.6	+002.6	+002.6	+002.6	+002.6
51.2500	+002.6	+002.5	+002.5	+002.6	+002.5
51.8750	+002.6	+002.5	+002.5	+002.5	+002.5
52.5000	+002.5	+002.4	+002.4	+002.4	+002.4
53.1250	+002.4	+002.4	+002.5	+002.5	+002.5
53.7500	+002.5	+002.5	+002.5	+002.4	+002.4
54.3750	+002.4	+002.4	+002.4	+002.4	+002.5
55.0000	+002.4	+002.4	+002.3	+002.4	+002.3
55.6250	+002.3	+002.3	+002.3	+002.3	+002.2
56.2500	+002.2	+002.2	+002.2	+002.3	+002.2
56.8750	+002.2	+002.2	+002.2	+002.2	+002.2
57.5000	+002.2	+002.2	+002.2	+002.1	+002.1
58.1250	+002.1	+002.1	+002.1	+002.0	+002.0
58.7500	+002.0	+001.9	+001.9	+001.9	+001.9
59.3750	+001.9	+001.8	+001.8	+001.8	+313.4

AMAX= +052.0 AT T=009.1

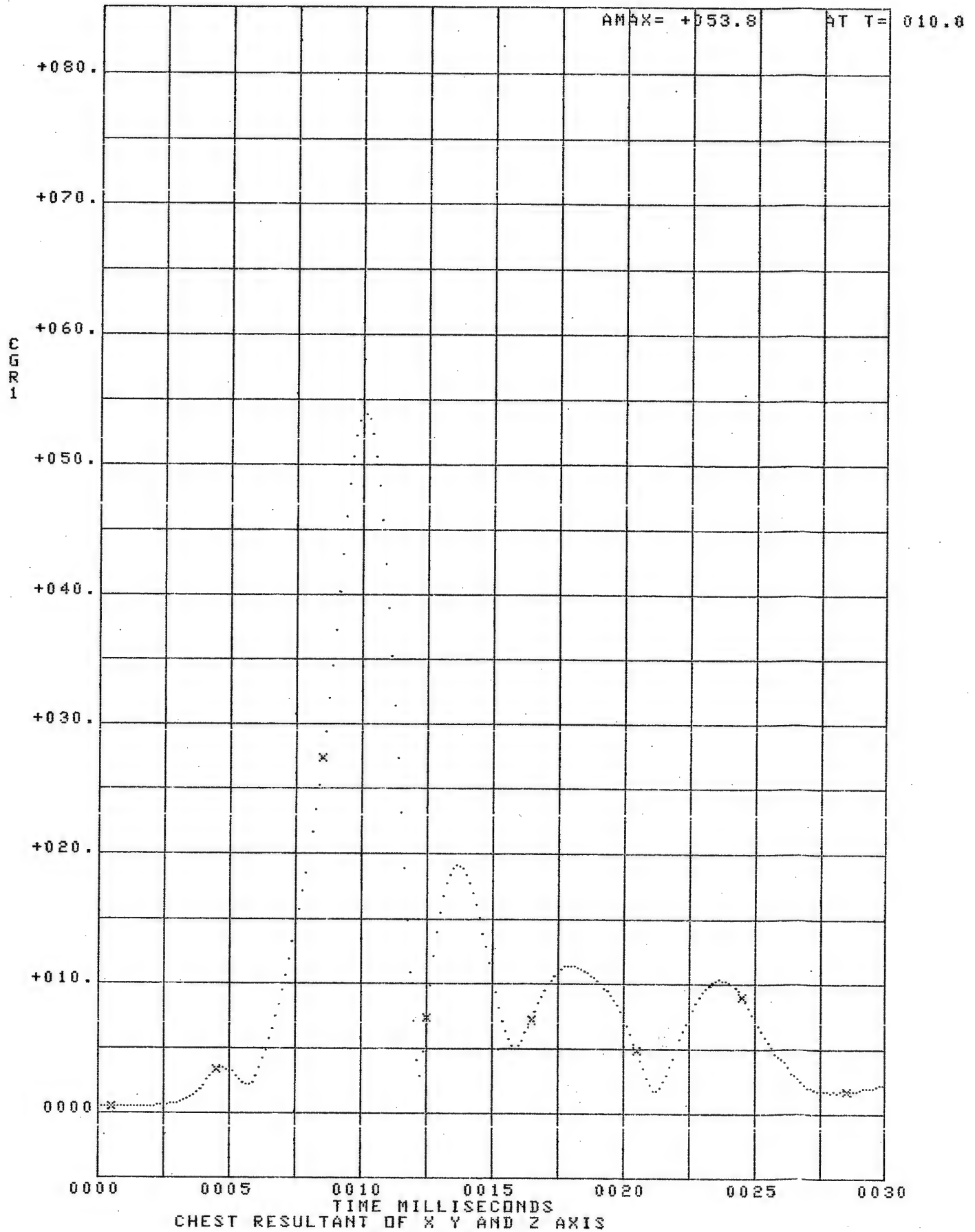
Chest Impact
Dummy No. 32, Run No. 9







CHEST IMPACT
TEST C005



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C005

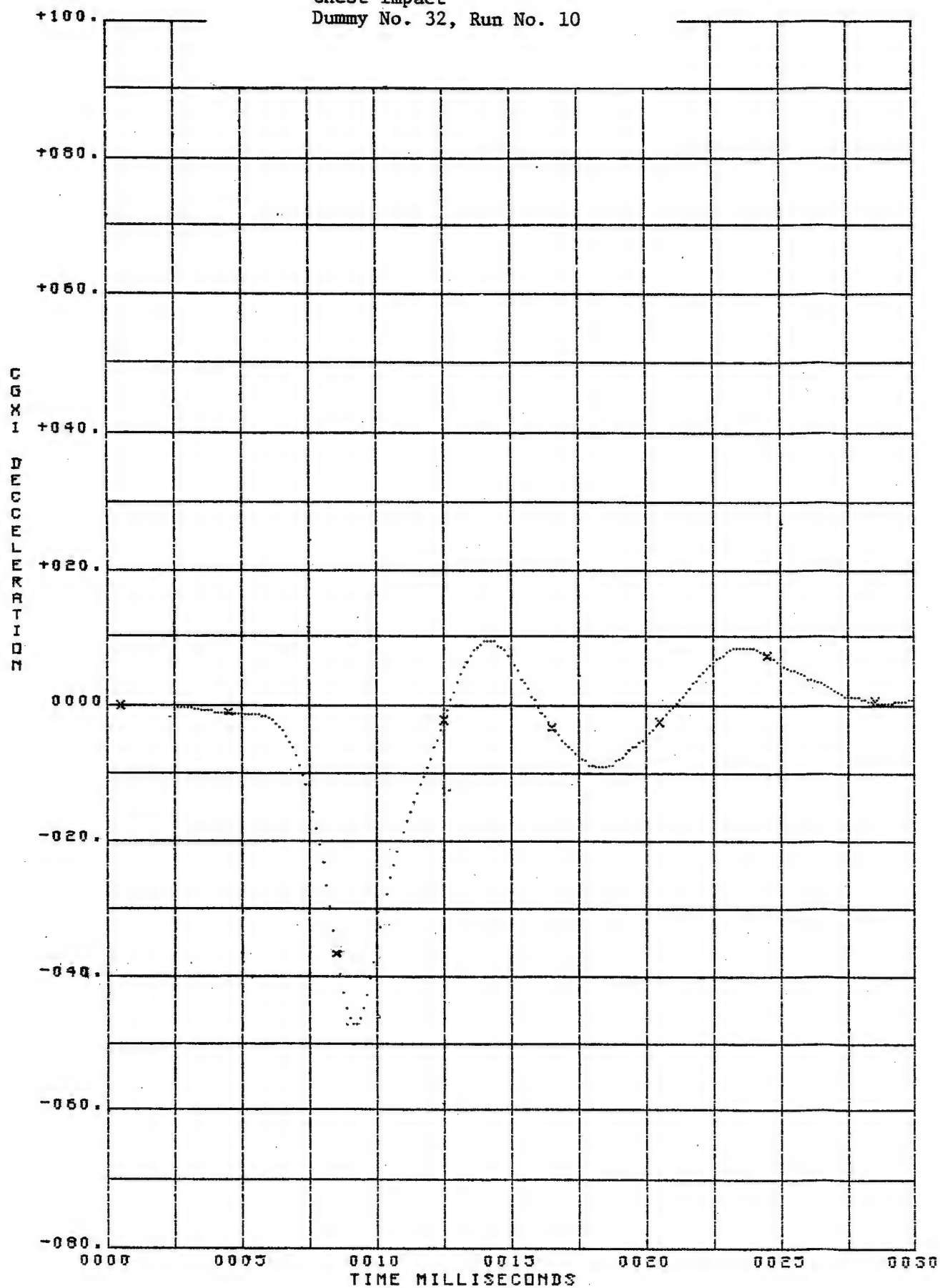
TIME					
0.0000	+000.0	+000.0	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.0	+000.0	+000.0	+000.0	+000.0
1.8750	+000.0	+000.0	+000.1	+000.1	+000.1
2.5000	+000.1	+000.2	+000.3	+000.3	+000.4
3.1250	+000.5	+000.6	+000.7	+001.0	+001.2
3.7500	+001.4	+001.7	+002.1	+002.3	+002.6
4.3750	+002.8	+003.0	+003.0	+002.9	+002.8
5.0000	+002.7	+002.4	+002.1	+001.9	+001.8
5.6250	+001.7	+001.9	+002.4	+003.0	+003.7
6.2500	+004.4	+005.2	+006.0	+007.0	+007.9
6.8750	+009.0	+010.1	+011.3	+012.7	+014.0
7.5000	+015.2	+016.6	+018.0	+019.5	+021.1
8.1250	+022.9	+024.7	+026.8	+029.0	+031.6
8.7500	+034.1	+036.9	+040.0	+042.9	+045.8
9.3750	+048.4	+050.5	+052.2	+053.3	+053.8
10.0000	+053.8	+053.4	+052.3	+050.6	+048.3
10.6250	+045.5	+042.2	+038.7	+034.9	+031.0
11.2500	+026.8	+022.6	+018.4	+014.3	+010.4
11.8750	+006.7	+003.6	+002.3	+004.3	+006.9
12.5000	+009.3	+011.6	+013.4	+014.9	+016.2
13.1250	+017.2	+017.9	+018.4	+018.6	+018.5
13.7500	+018.3	+017.9	+017.2	+016.5	+015.6
14.3750	+014.5	+013.4	+012.3	+011.1	+010.0
15.0000	+008.8	+007.7	+006.6	+005.8	+005.2
15.6250	+004.7	+004.6	+004.8	+005.1	+005.7
16.2500	+006.1	+006.8	+007.4	+008.0	+008.5
16.8750	+009.0	+009.4	+009.8	+010.2	+010.4
17.5000	+010.6	+010.8	+010.8	+010.9	+010.8
18.1250	+010.8	+010.6	+010.5	+010.3	+010.2
18.7500	+010.0	+009.7	+009.5	+009.1	+009.0
19.3750	+008.6	+008.2	+007.8	+007.3	+006.8
20.0000	+006.2	+005.6	+004.9	+004.3	+003.6
20.6250	+003.0	+002.3	+001.8	+001.3	+001.2
21.2500	+001.5	+002.0	+002.5	+003.1	+003.8
21.8750	+004.5	+005.2	+005.9	+006.5	+006.9
22.5000	+007.5	+008.0	+008.5	+008.8	+009.1
23.1250	+009.4	+009.6	+009.8	+009.9	+009.8
23.7500	+009.7	+009.7	+009.5	+009.2	+008.9
24.3750	+008.5	+008.1	+007.6	+007.1	+006.6
25.0000	+006.2	+005.9	+005.4	+005.0	+004.6
25.6250	+004.2	+003.9	+003.7	+003.4	+003.2
26.2500	+002.7	+002.5	+002.2	+002.0	+001.7
26.8750	+001.6	+001.5	+001.4	+001.3	+001.3
27.5000	+001.3	+001.3	+001.1	+001.2	+001.1
28.1250	+001.3	+001.4	+001.3	+001.3	+001.3
28.7500	+001.3	+001.4	+001.5	+001.5	+001.5
29.3750	+001.6	+001.7	+001.7	+001.8	+001.8
30.0000	+001.8	+001.9	+002.0	+002.1	+002.1
30.6250	+002.3	+002.3	+002.5	+002.6	+002.6
31.2500	+002.7	+002.8	+002.9	+003.1	+003.1
31.8750	+003.2	+003.2	+003.3	+003.3	+003.3
32.5000	+003.5	+003.6	+003.5	+003.6	+003.6
33.1250	+003.7	+003.7	+003.8	+003.8	+003.9
33.7500	+003.9	+004.0	+004.1	+004.1	+004.1
34.3750	+004.3	+004.3	+004.3	+004.4	+004.4
35.0000	+004.4	+004.5	+004.5	+004.5	+004.6
35.6250	+004.6	+004.6	+004.7	+004.7	+004.7
36.2500	+004.6	+004.6	+004.6	+004.6	+004.6
36.8750	+004.6	+004.5	+004.5	+004.5	+004.5

RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C005		
37.5000	+004.4	+004.4	+004.3	+004.3	+004.3	
38.1250	+004.3	+004.3	+004.1	+004.1	+004.0	
38.7500	+003.9	+003.9	+003.9	+003.9	+003.8	
39.3750	+003.8	+003.8	+003.7	+003.8	+003.8	
40.0000	+003.8	+003.6	+003.6	+003.6	+003.5	
40.6250	+003.5	+003.5	+003.3	+003.3	+003.3	
41.2500	+003.3	+003.2	+003.0	+003.0	+002.8	
41.8750	+002.8	+002.8	+002.7	+002.5	+002.5	
42.5000	+002.4	+002.3	+002.3	+002.2	+002.2	
43.1250	+002.1	+002.0	+002.0	+001.9	+001.9	
43.7500	+001.9	+001.8	+001.8	+001.8	+001.7	
44.3750	+001.7	+001.7	+001.7	+001.7	+001.7	
45.0000	+001.8	+001.8	+001.8	+001.7	+001.8	
45.6250	+001.8	+001.8	+001.8	+001.8	+001.8	
46.2500	+001.8	+001.8	+001.8	+001.8	+001.8	
46.8750	+001.8	+001.9	+001.9	+001.9	+001.9	
47.5000	+001.8	+001.8	+002.0	+002.0	+002.1	
48.1250	+002.0	+002.0	+002.0	+002.0	+002.0	
48.7500	+002.1	+002.1	+002.2	+002.2	+002.2	
49.3750	+002.2	+002.3	+002.3	+002.4	+002.4	
50.0000	+002.4	+002.5	+002.5	+002.5	+002.5	
50.6250	+002.5	+002.5	+002.5	+002.4	+002.5	
51.2500	+002.4	+002.4	+002.3	+002.2	+002.3	
51.8750	+002.2	+002.2	+002.1	+002.1	+002.1	
52.5000	+002.1	+002.1	+002.1	+002.1	+002.1	
53.1250	+002.1	+002.1	+002.1	+002.1	+002.1	
53.7500	+002.1	+002.1	+002.1	+002.1	+002.1	
54.3750	+002.1	+002.1	+002.0	+002.0	+002.0	
55.0000	+002.1	+002.1	+002.0	+002.1	+002.0	
55.6250	+001.9	+001.9	+001.9	+001.9	+001.9	
56.2500	+001.9	+001.8	+001.8	+001.8	+001.8	
56.8750	+001.8	+001.7	+001.8	+001.6	+001.6	
57.5000	+001.5	+001.5	+001.4	+001.4	+001.4	
58.1250	+001.4	+001.4	+001.4	+001.3	+001.4	
58.7500	+001.4	+001.4	+001.3	+001.3	+001.3	
59.3750	+001.3	+001.4	+001.4	+001.4	+313.4	

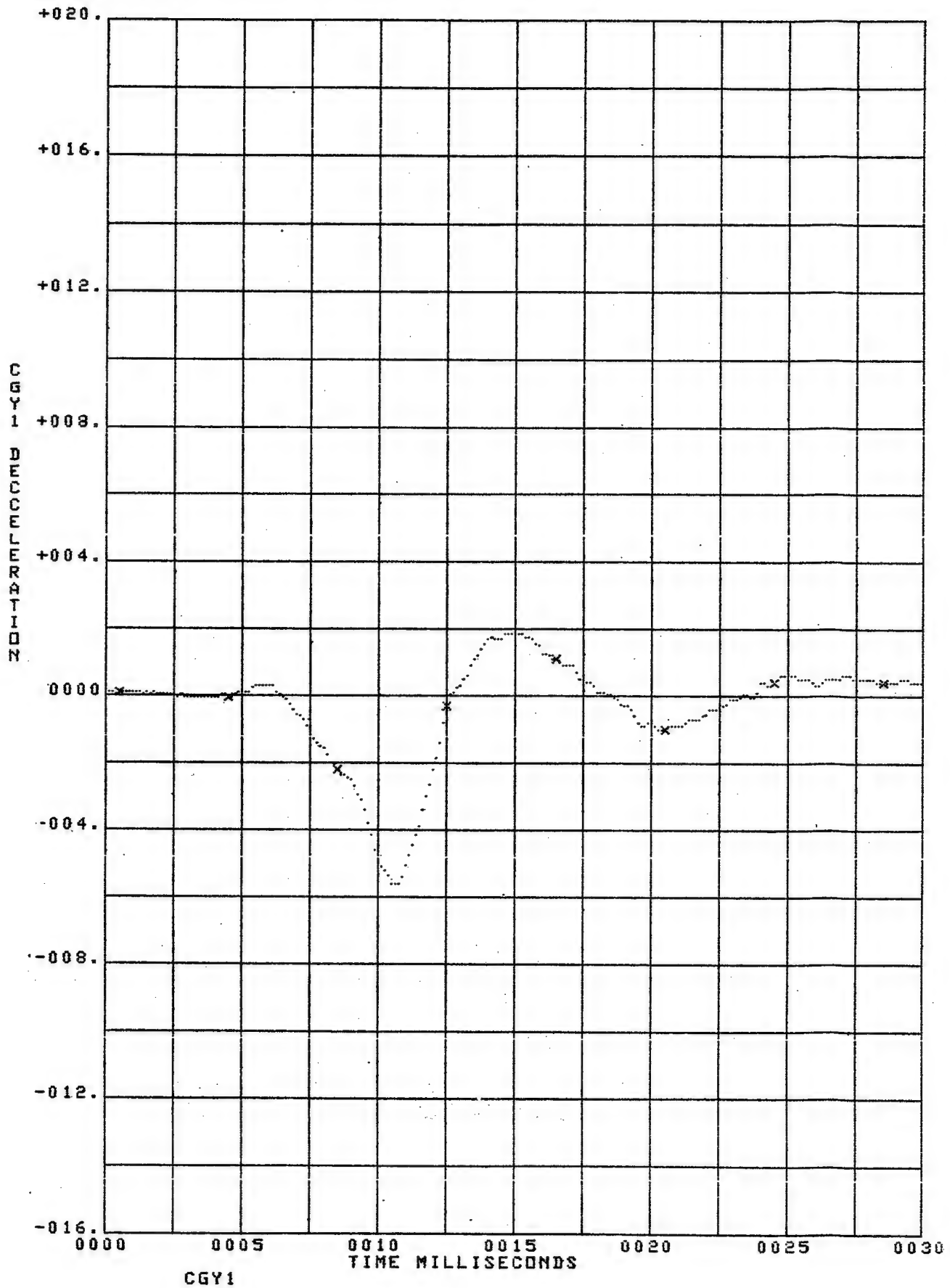
AMAX= +053.8

AT T=010.0

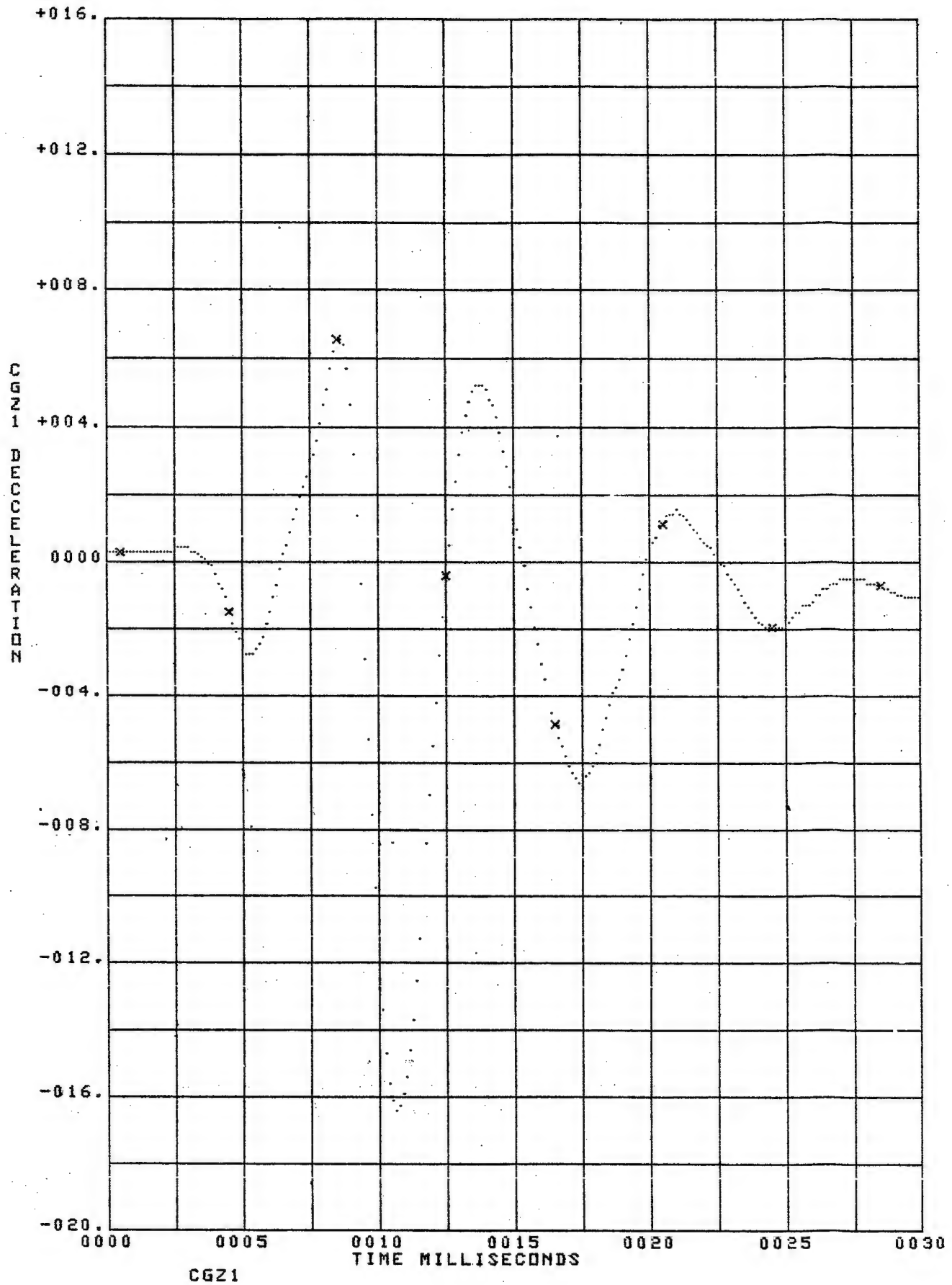
Chest Impact
Dummy No. 32, Run No. 10



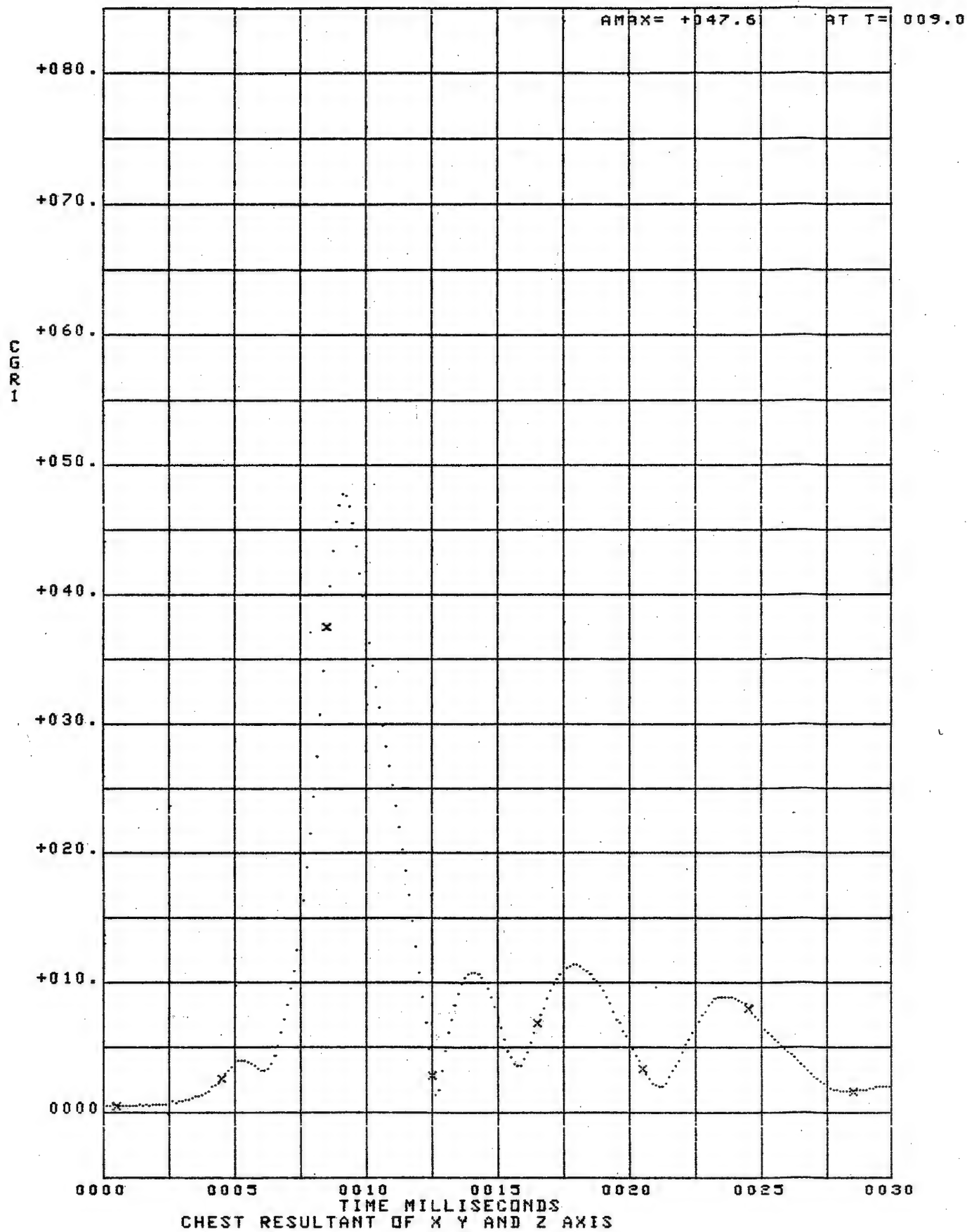
CHEST IMPACT
TEST C006



CHEST IMPACT
TEST C006



CHEST IMPACT
TEST C006



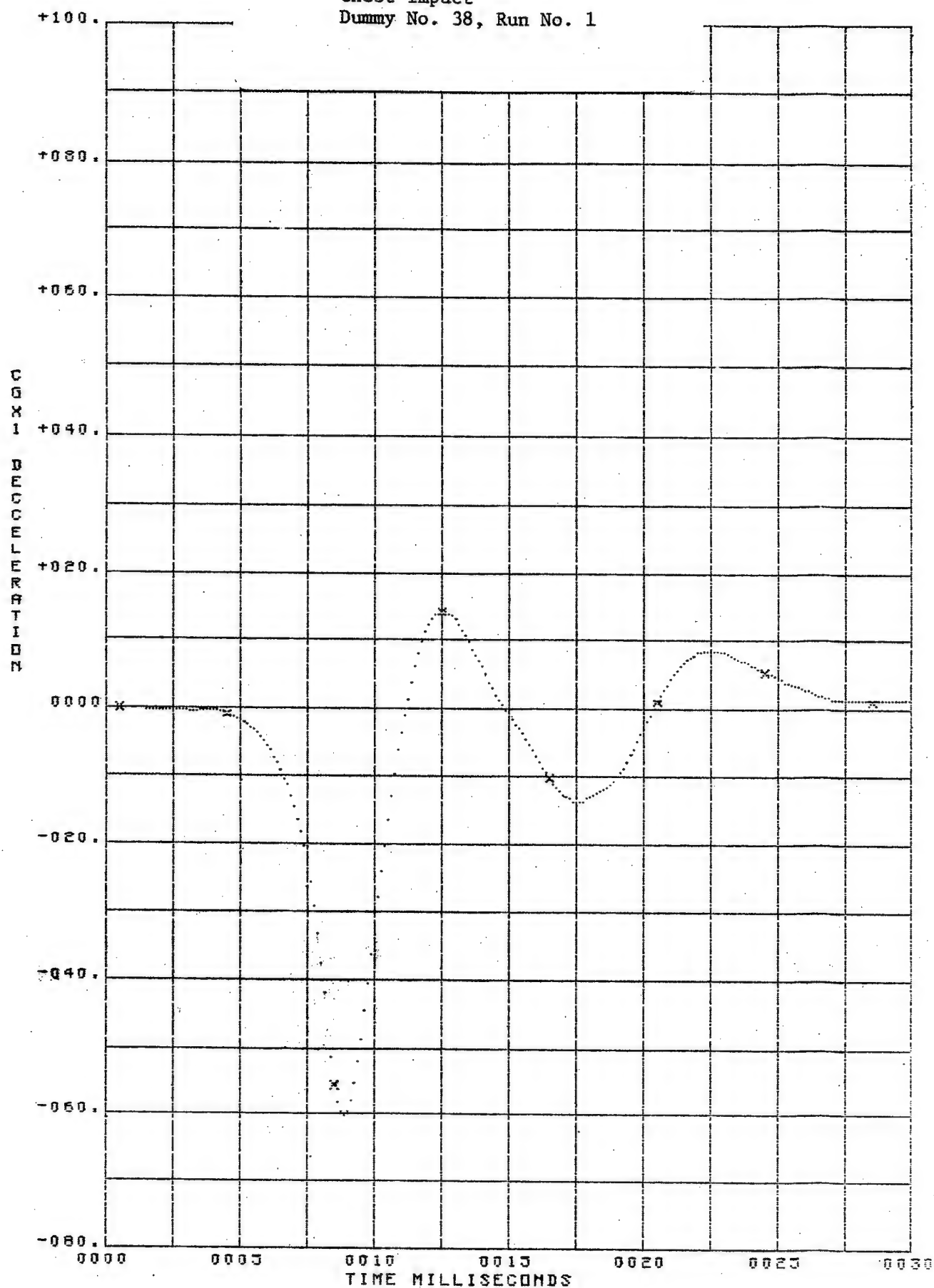
RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C006

TIME					
0.0000	+000.0	+000.0	+000.1	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.1	+000.0	+000.1	+000.0	+000.1
1.8750	+000.1	+000.1	+000.2	+000.2	+000.3
2.5000	+000.3	+000.3	+000.4	+000.4	+000.5
3.1250	+000.5	+000.7	+000.8	+000.8	+000.9
3.7500	+001.0	+001.2	+001.5	+001.6	+001.8
4.3750	+002.1	+002.5	+002.8	+003.0	+003.2
5.0000	+003.5	+003.5	+003.5	+003.4	+003.2
5.6250	+003.2	+002.8	+002.8	+002.8	+002.9
6.2500	+003.3	+003.9	+004.6	+005.6	+006.6
6.8750	+007.7	+008.9	+010.3	+011.9	+013.9
7.5000	+015.9	+018.4	+020.9	+023.9	+027.0
8.1250	+030.3	+033.8	+037.2	+040.4	+043.1
8.7500	+045.4	+046.8	+047.6	+047.4	+046.6
9.3750	+045.3	+043.5	+041.4	+039.5	+037.6
10.0000	+035.8	+034.1	+032.5	+030.9	+029.4
10.6250	+027.8	+026.3	+024.8	+023.1	+021.5
11.2500	+019.8	+018.0	+016.2	+014.2	+012.2
11.8750	+010.2	+008.3	+006.4	+004.4	+002.4
12.5000	+000.9	+001.3	+002.8	+004.3	+005.6
13.1250	+006.7	+007.8	+008.6	+009.3	+009.8
13.7500	+010.1	+010.3	+010.3	+010.2	+009.9
14.3750	+009.5	+009.0	+008.4	+007.6	+006.8
15.0000	+006.0	+005.2	+004.3	+003.7	+003.2
15.6250	+003.1	+003.2	+003.6	+004.2	+004.9
16.2500	+005.6	+006.3	+007.0	+007.5	+008.2
16.8750	+008.8	+009.3	+009.7	+010.1	+010.4
17.5000	+010.6	+010.8	+010.9	+010.8	+010.8
18.1250	+010.5	+010.4	+010.1	+009.7	+009.7
18.7500	+009.2	+008.8	+008.4	+007.8	+007.2
19.3750	+006.6	+006.3	+005.8	+005.4	+004.8
20.0000	+004.3	+003.9	+003.4	+002.9	+002.5
20.6250	+002.1	+001.8	+001.6	+001.5	+001.5
21.2500	+001.8	+002.2	+002.7	+003.2	+003.6
21.8750	+004.2	+004.7	+005.1	+005.6	+006.1
22.5000	+006.6	+007.0	+007.2	+007.7	+008.0
23.1250	+008.3	+008.3	+008.3	+008.4	+008.4
23.7500	+008.4	+008.3	+008.2	+008.0	+007.8
24.3750	+007.5	+007.2	+006.9	+006.6	+006.3
25.0000	+005.9	+005.6	+005.3	+005.1	+004.9
25.6250	+004.6	+004.4	+004.2	+004.0	+003.8
26.2500	+003.5	+003.2	+003.0	+002.7	+002.5
26.8750	+002.3	+002.1	+001.9	+001.8	+001.6
27.5000	+001.4	+001.3	+001.2	+001.2	+001.2
28.1250	+001.1	+001.1	+001.1	+001.2	+001.2
28.7500	+001.3	+001.3	+001.4	+001.4	+001.5
29.3750	+001.5	+001.5	+001.5	+001.6	+001.6
30.0000	+001.7	+001.7	+001.7	+001.8	+001.9
30.6250	+002.0	+002.1	+002.2	+002.3	+002.3
31.2500	+002.5	+002.5	+002.6	+002.8	+002.8
31.8750	+003.0	+003.0	+003.2	+003.3	+003.2
32.5000	+003.3	+003.3	+003.4	+003.5	+003.5
33.1250	+003.6	+003.6	+003.6	+003.8	+003.8
33.7500	+003.8	+003.9	+004.0	+004.0	+004.1
34.3750	+004.1	+004.3	+004.3	+004.3	+004.4
35.0000	+004.4	+004.5	+004.5	+004.6	+004.6
35.6250	+004.6	+004.7	+004.7	+004.7	+004.7
36.2500	+004.7	+004.7	+004.7	+004.6	+004.6
36.8750	+004.6	+004.5	+004.5	+004.5	+004.4

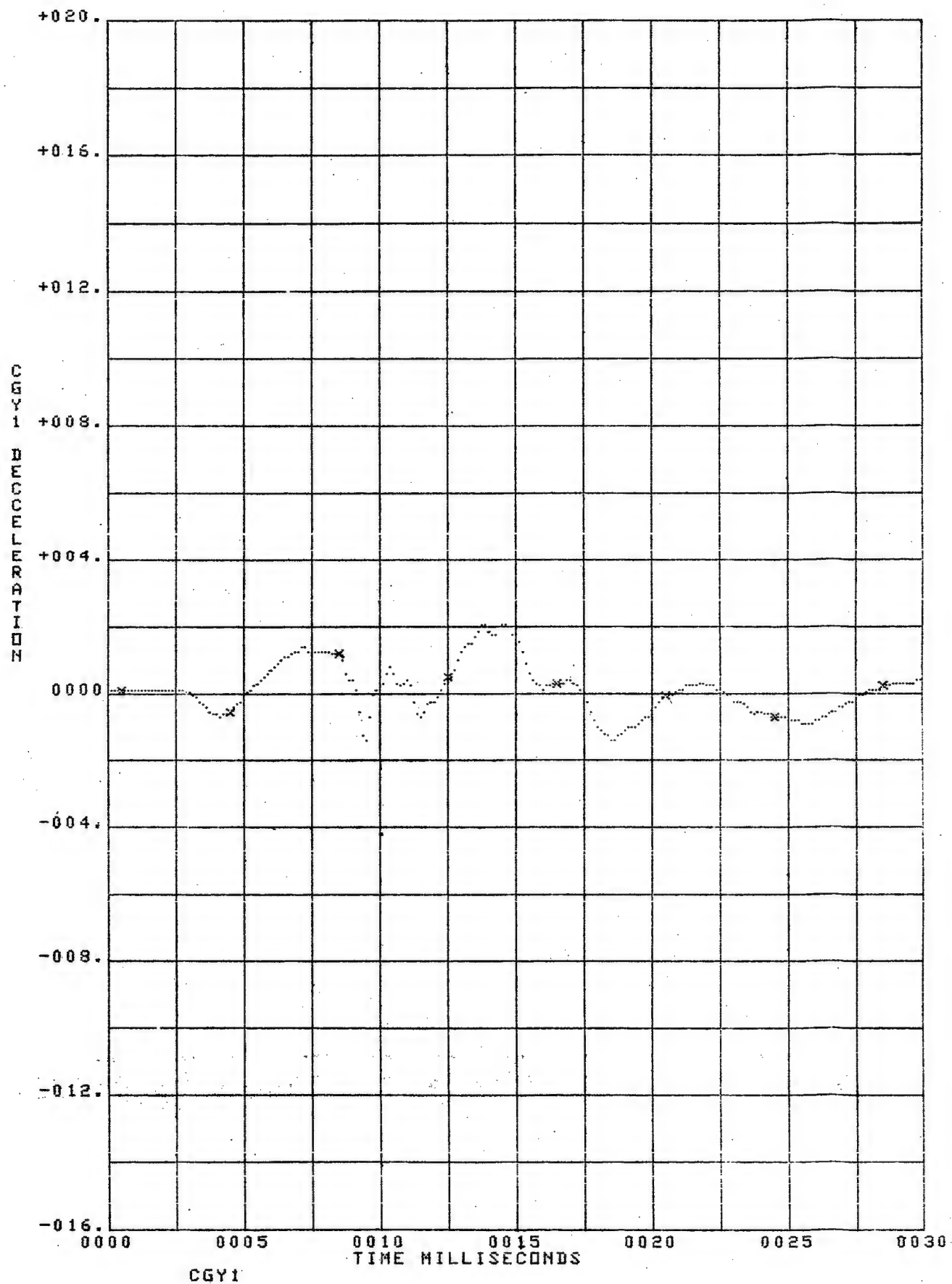
RESULTANT (CGR1) DF	CGX1	CGY1	CGZ1	C006		
37.5000	+004.4	+004.3	+004.3	+004.3	+004.3	+004.3
38.1250	+004.1	+004.1	+004.1	+004.0	+004.0	+003.9
38.7500	+003.9	+003.8	+003.8	+003.9	+003.8	+003.7
39.3750	+003.7	+003.8	+003.6	+003.6	+003.6	+003.6
40.0000	+003.6	+003.6	+003.6	+003.6	+003.6	+003.5
40.6250	+003.5	+003.5	+003.5	+003.5	+003.5	+003.5
41.2500	+003.5	+003.5	+003.3	+003.3	+003.3	+003.3
41.8750	+003.3	+003.3	+003.2	+003.0	+003.0	+003.0
42.5000	+003.0	+002.8	+002.8	+002.8	+002.8	+002.7
43.1250	+002.7	+002.5	+002.5	+002.5	+002.5	+002.4
43.7500	+002.3	+002.3	+002.2	+002.2	+002.2	+002.2
44.3750	+002.2	+002.1	+002.0	+002.0	+002.0	+002.0
45.0000	+002.0	+002.0	+002.0	+002.0	+002.0	+001.9
45.6250	+001.9	+001.9	+001.9	+001.9	+001.9	+001.9
46.2500	+001.9	+001.9	+002.0	+002.0	+002.0	+002.0
46.8750	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
47.5000	+002.0	+002.0	+002.0	+002.0	+002.1	+002.2
48.1250	+002.1	+002.2	+002.2	+002.2	+002.2	+002.1
48.7500	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
49.3750	+002.1	+002.1	+002.1	+002.1	+002.2	+002.2
50.0000	+002.2	+002.4	+002.4	+002.4	+002.4	+002.4
50.6250	+002.4	+002.5	+002.5	+002.5	+002.5	+002.5
51.2500	+002.5	+002.5	+002.5	+002.5	+002.5	+002.5
51.8750	+002.5	+002.5	+002.4	+002.5	+002.5	+002.4
52.5000	+002.3	+002.3	+002.3	+002.3	+002.3	+002.3
53.1250	+002.3	+002.3	+002.2	+002.2	+002.2	+002.2
53.7500	+002.2	+002.2	+002.2	+002.2	+002.2	+002.2
54.3750	+002.2	+002.2	+002.2	+002.1	+002.1	+002.1
55.0000	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
55.6250	+002.1	+002.1	+002.1	+001.9	+001.9	+001.9
56.2500	+001.9	+001.9	+001.9	+001.9	+001.9	+001.9
56.8750	+001.9	+001.9	+001.8	+001.8	+001.8	+001.8
57.5000	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
58.1250	+001.9	+001.8	+001.8	+001.8	+001.8	+001.8
58.7500	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
59.3750	+001.8	+001.8	+001.8	+001.8	+001.8	+313.4

AMAX= +047.6 AT T=009.0

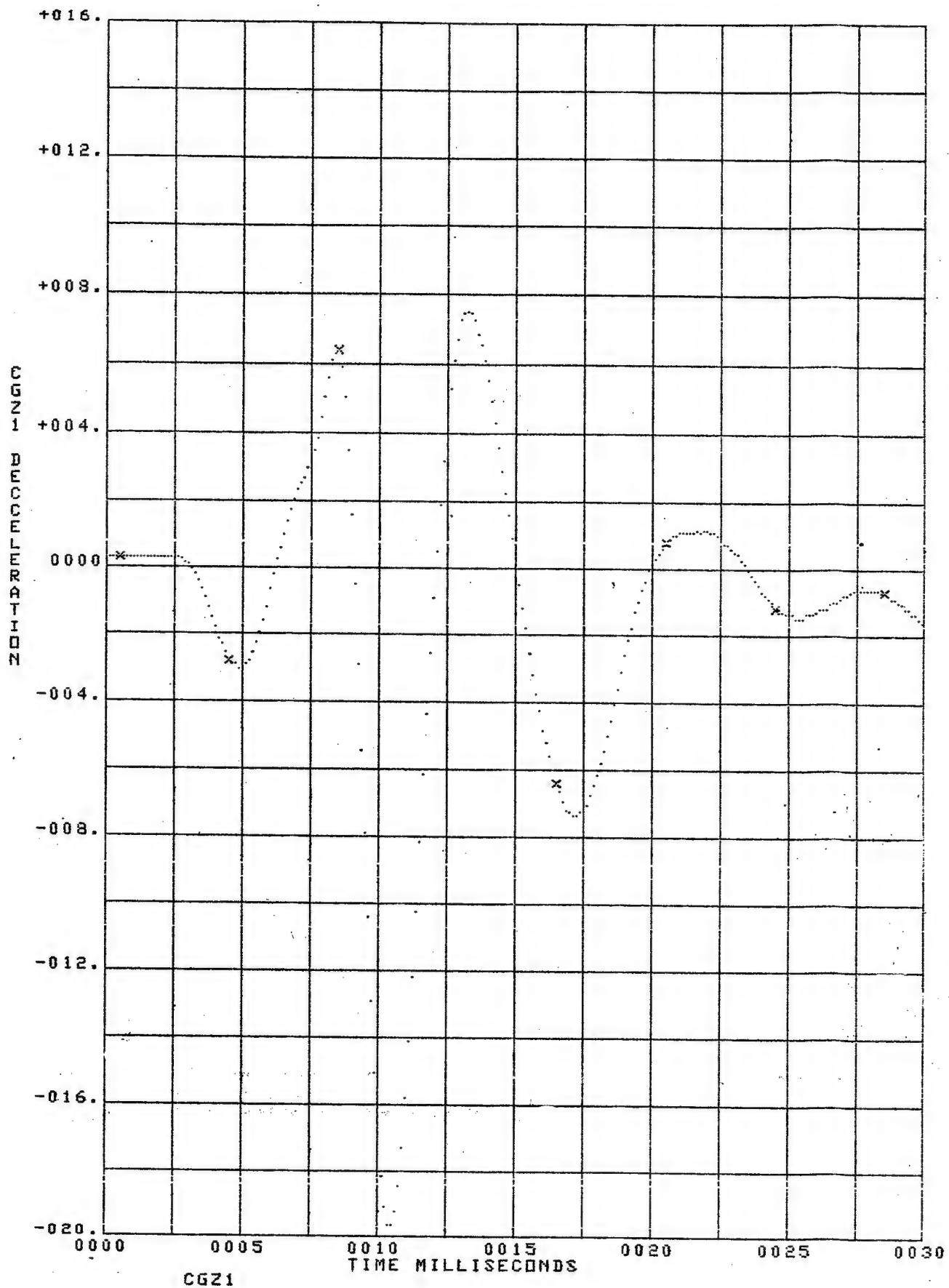
Chest Impact
Dummy No. 38, Run No. 1



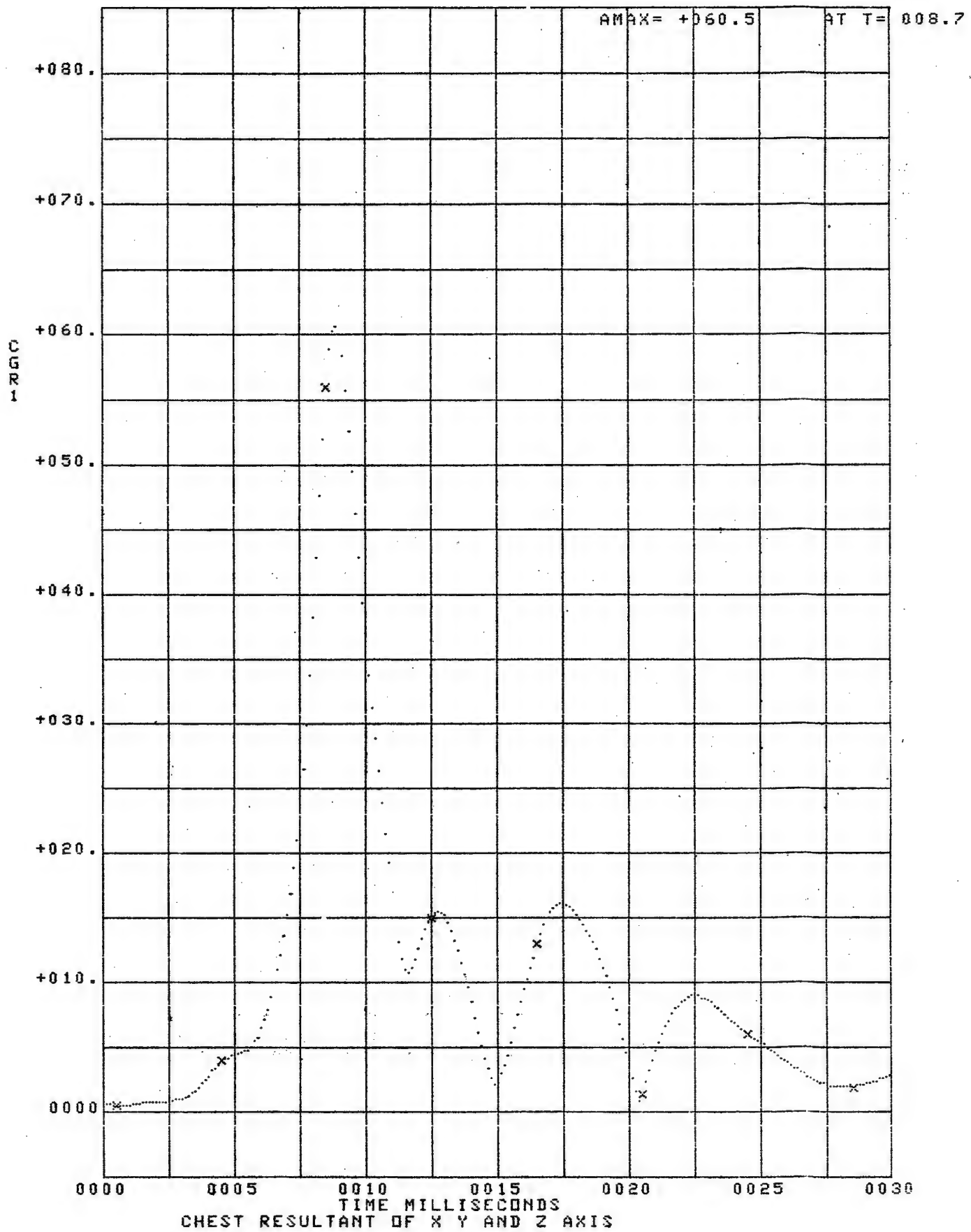
CHEST IMPACT
TEST C018



CHEST IMPACT
TEST C018



CHEST IMPACT
TEST C018



RESULTANT (CGR1) OF CGY1 CGX1 CGZ1 C018

TIME					
0.0000	+000.1	+000.1	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.1	+000.1
1.2500	+000.1	+000.2	+000.2	+000.2	+000.2
1.8750	+000.2	+000.3	+000.3	+000.3	+000.4
2.5000	+000.4	+000.4	+000.5	+000.5	+000.7
3.1250	+000.8	+001.0	+001.2	+001.4	+001.8
3.7500	+002.0	+002.3	+002.7	+002.9	+003.1
4.3750	+003.4	+003.6	+003.7	+003.9	+004.0
5.0000	+004.1	+004.2	+004.2	+004.3	+004.6
5.6250	+005.0	+005.3	+005.9	+006.7	+007.4
6.2500	+008.3	+009.4	+010.5	+011.6	+013.1
6.8750	+014.7	+016.4	+018.3	+020.5	+023.0
7.5000	+025.9	+029.5	+033.3	+037.9	+042.6
8.1250	+047.5	+051.9	+055.9	+058.8	+060.1
8.7500	+060.5	+060.0	+058.4	+055.7	+052.6
9.3750	+049.4	+046.0	+042.6	+039.1	+036.1
10.0000	+033.3	+030.8	+028.3	+025.8	+023.3
10.6250	+020.9	+018.7	+016.5	+014.4	+012.6
11.2500	+011.3	+010.5	+010.3	+010.6	+011.3
11.8750	+012.1	+012.9	+013.6	+014.1	+014.5
12.5000	+014.8	+015.0	+014.8	+014.7	+014.1
13.1250	+013.5	+012.7	+011.9	+011.0	+010.1
13.7500	+009.1	+007.9	+006.8	+005.7	+004.7
14.3750	+003.7	+002.9	+002.1	+001.7	+001.8
15.0000	+002.5	+003.2	+003.9	+004.9	+006.0
15.6250	+007.0	+007.9	+009.0	+009.7	+010.7
16.2500	+011.5	+012.4	+013.2	+014.0	+014.5
16.8750	+015.0	+015.2	+015.5	+015.6	+015.6
17.5000	+015.5	+015.3	+015.0	+014.7	+014.3
18.1250	+013.9	+013.5	+013.1	+012.6	+012.1
18.7500	+011.4	+010.6	+010.0	+009.1	+008.2
19.3750	+007.3	+006.3	+005.2	+004.2	+003.2
20.0000	+002.1	+001.1	+000.3	+000.9	+001.9
20.6250	+002.7	+003.5	+004.3	+004.9	+005.5
21.2500	+006.1	+006.6	+007.1	+007.5	+007.7
21.8750	+008.0	+008.2	+008.3	+008.5	+008.5
22.5000	+008.5	+008.3	+008.2	+008.2	+008.0
23.1250	+007.7	+007.5	+007.2	+007.0	+006.8
23.7500	+006.6	+006.4	+006.1	+005.9	+005.7
24.3750	+005.5	+005.3	+005.2	+005.0	+004.8
25.0000	+004.7	+004.4	+004.3	+004.1	+003.9
25.6250	+003.6	+003.5	+003.3	+003.1	+002.9
26.2500	+002.8	+002.6	+002.5	+002.3	+002.1
26.8750	+002.0	+001.9	+001.7	+001.7	+001.6
27.5000	+001.5	+001.5	+001.5	+001.5	+001.5
28.1250	+001.5	+001.5	+001.4	+001.6	+001.6
28.7500	+001.7	+001.8	+001.8	+001.9	+001.9
29.3750	+002.1	+002.1	+002.3	+002.4	+002.5
30.0000	+002.5	+002.5	+002.6	+002.7	+002.7
30.6250	+002.7	+002.8	+002.8	+002.8	+002.9
31.2500	+003.0	+003.0	+003.0	+002.9	+003.0
31.8750	+003.0	+003.1	+003.0	+003.1	+003.1
32.5000	+003.1	+003.2	+003.3	+003.4	+003.4
33.1250	+003.5	+003.5	+003.6	+003.7	+003.8
33.7500	+003.8	+004.0	+004.1	+004.3	+004.3
34.3750	+004.4	+004.4	+004.5	+004.5	+004.6
35.0000	+004.6	+004.6	+004.7	+004.7	+004.7
35.6250	+004.6	+004.6	+004.6	+004.5	+004.5
36.2500	+004.4	+004.4	+004.4	+004.2	+004.1
36.8750	+004.0	+003.9	+003.9	+003.7	+003.7

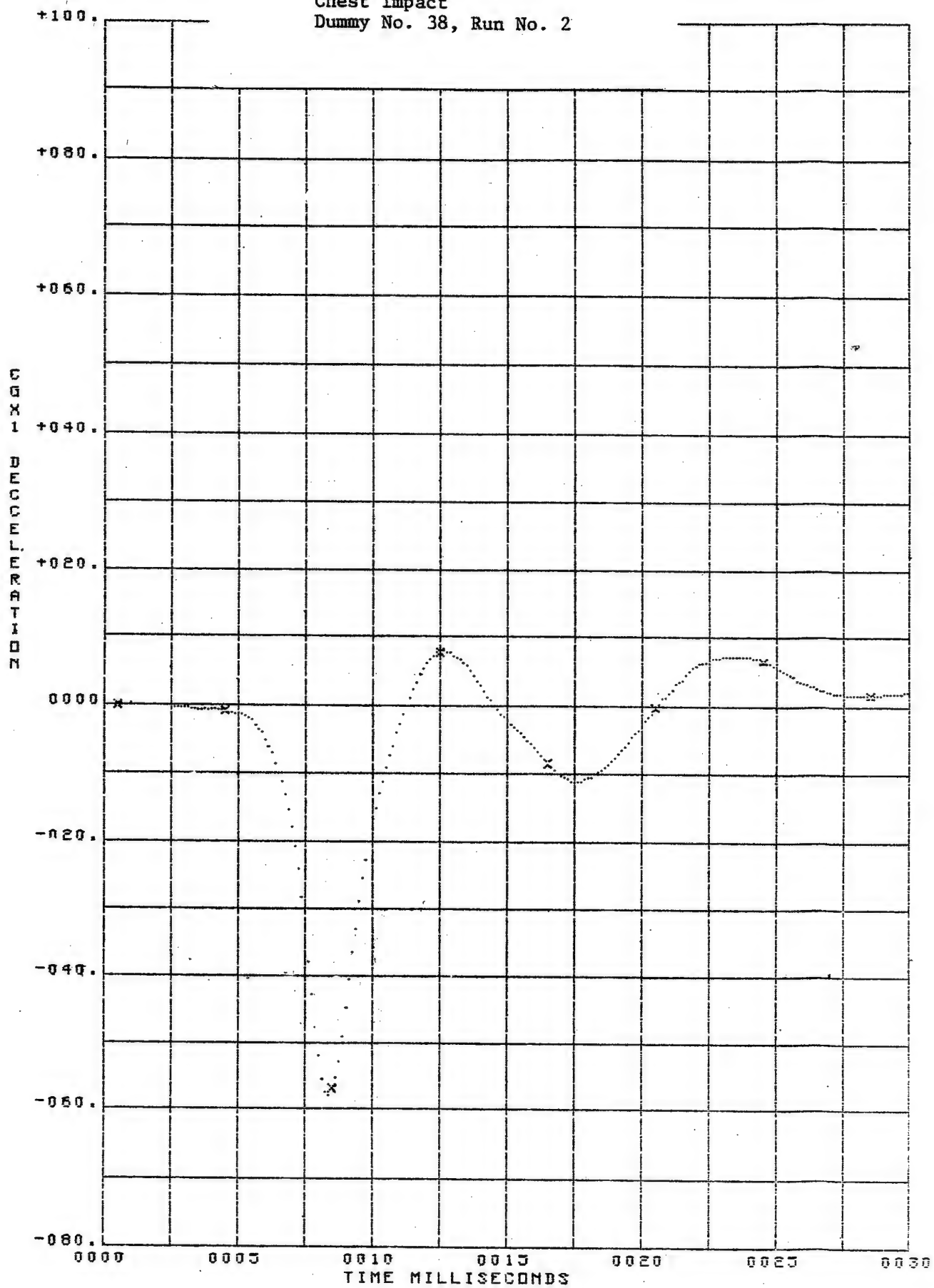
RESULTANT (CGR1) OF	CGY1	CGX1	CGZ1	C018		
37.5000	+003.5	+003.5	+003.3	+003.3	+003.3	+003.2
38.1250	+003.0	+003.0	+003.0	+003.0	+002.8	+002.8
38.7500	+002.8	+002.7	+002.6	+002.5	+002.5	+002.5
39.3750	+002.5	+002.5	+002.3	+002.3	+002.3	+002.3
40.0000	+002.3	+002.3	+002.3	+002.3	+002.3	+002.1
40.6250	+002.2	+002.2	+002.2	+002.2	+002.1	+002.1
41.2500	+002.1	+002.0	+002.0	+002.0	+002.0	+002.1
41.8750	+002.0	+002.0	+002.0	+002.0	+002.0	+002.1
42.5000	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
43.1250	+002.1	+002.2	+002.2	+002.2	+002.3	+002.3
43.7500	+002.4	+002.4	+002.4	+002.4	+002.4	+002.5
44.3750	+002.5	+002.5	+002.5	+002.5	+002.5	+002.6
45.0000	+002.5	+002.5	+002.6	+002.6	+002.6	+002.6
45.6250	+002.6	+002.6	+002.7	+002.7	+002.7	+002.6
46.2500	+002.7	+002.7	+002.7	+002.7	+002.7	+002.7
46.8750	+002.7	+002.7	+002.6	+002.6	+002.6	+002.8
47.5000	+002.7	+002.8	+002.7	+002.7	+002.7	+002.7
48.1250	+002.7	+002.7	+002.6	+002.6	+002.7	+002.6
48.7500	+002.6	+002.6	+002.6	+002.6	+002.6	+002.5
49.3750	+002.5	+002.5	+002.5	+002.5	+002.4	+002.4
50.0000	+002.5	+002.5	+002.4	+002.4	+002.4	+002.4
50.6250	+002.3	+002.3	+002.3	+002.2	+002.2	+002.2
51.2500	+002.2	+002.2	+002.1	+002.1	+002.1	+002.1
51.8750	+002.1	+002.0	+002.0	+002.0	+002.0	+001.9
52.5000	+001.9	+001.8	+001.8	+001.8	+001.8	+001.8
53.1250	+001.8	+001.7	+001.7	+001.6	+001.6	+001.6
53.7500	+001.6	+001.6	+001.6	+001.6	+001.6	+001.6
54.3750	+001.6	+001.6	+001.5	+001.5	+001.5	+001.7
55.0000	+001.5	+001.7	+001.5	+001.5	+001.5	+001.7
55.6250	+001.6	+001.6	+001.7	+001.6	+001.6	+001.7
56.2500	+001.6	+001.7	+001.5	+001.7	+001.7	+001.7
56.8750	+001.7	+001.6	+001.7	+001.7	+001.7	+001.8
57.5000	+001.8	+001.8	+001.8	+001.7	+001.7	+001.8
58.1250	+001.7	+001.7	+001.7	+001.8	+001.8	+001.7
58.7500	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
59.3750	+001.8	+001.7	+001.7	+001.8	+001.8	+313.4

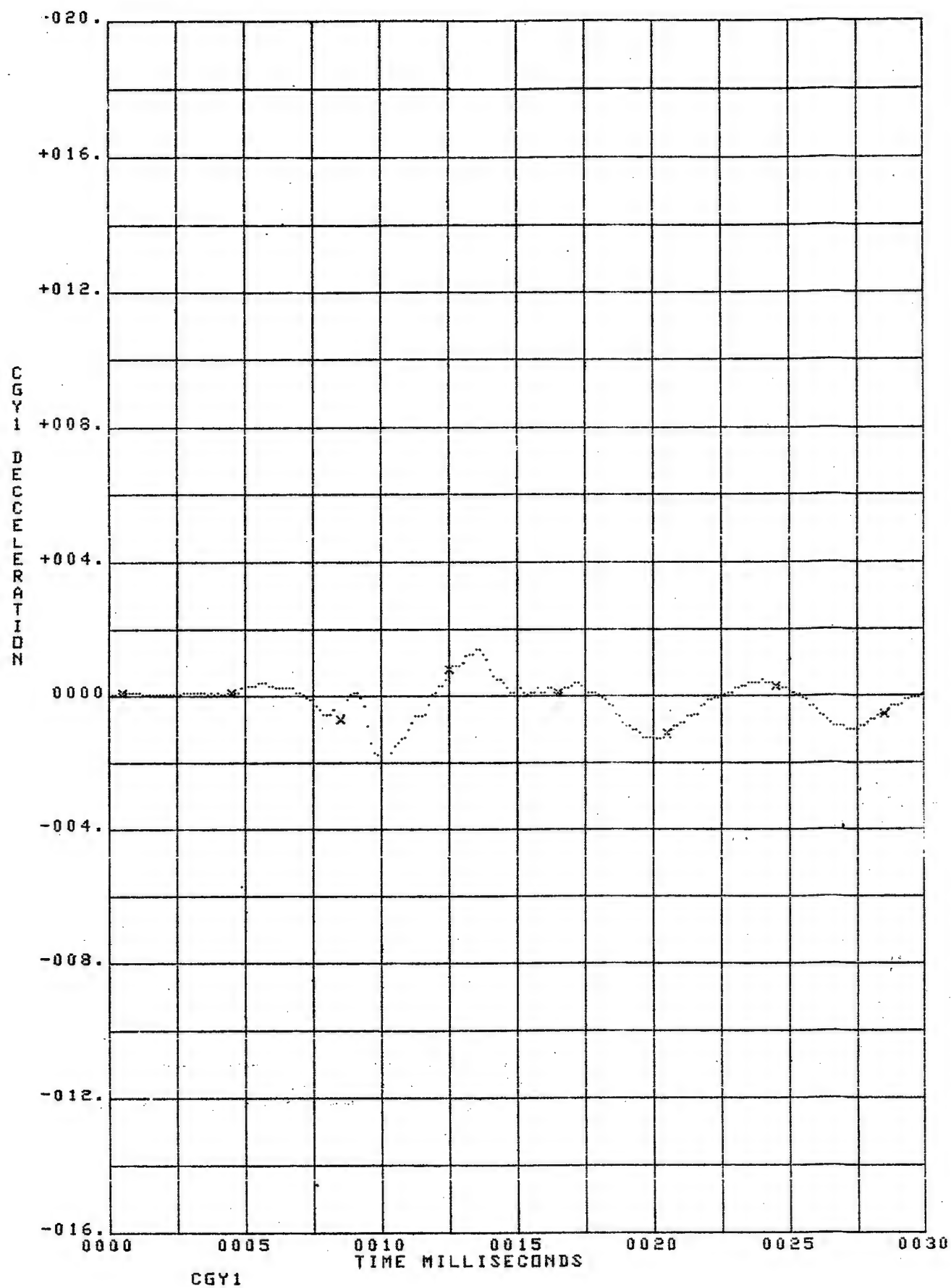
AMAX= +060.5

AT T=008.7

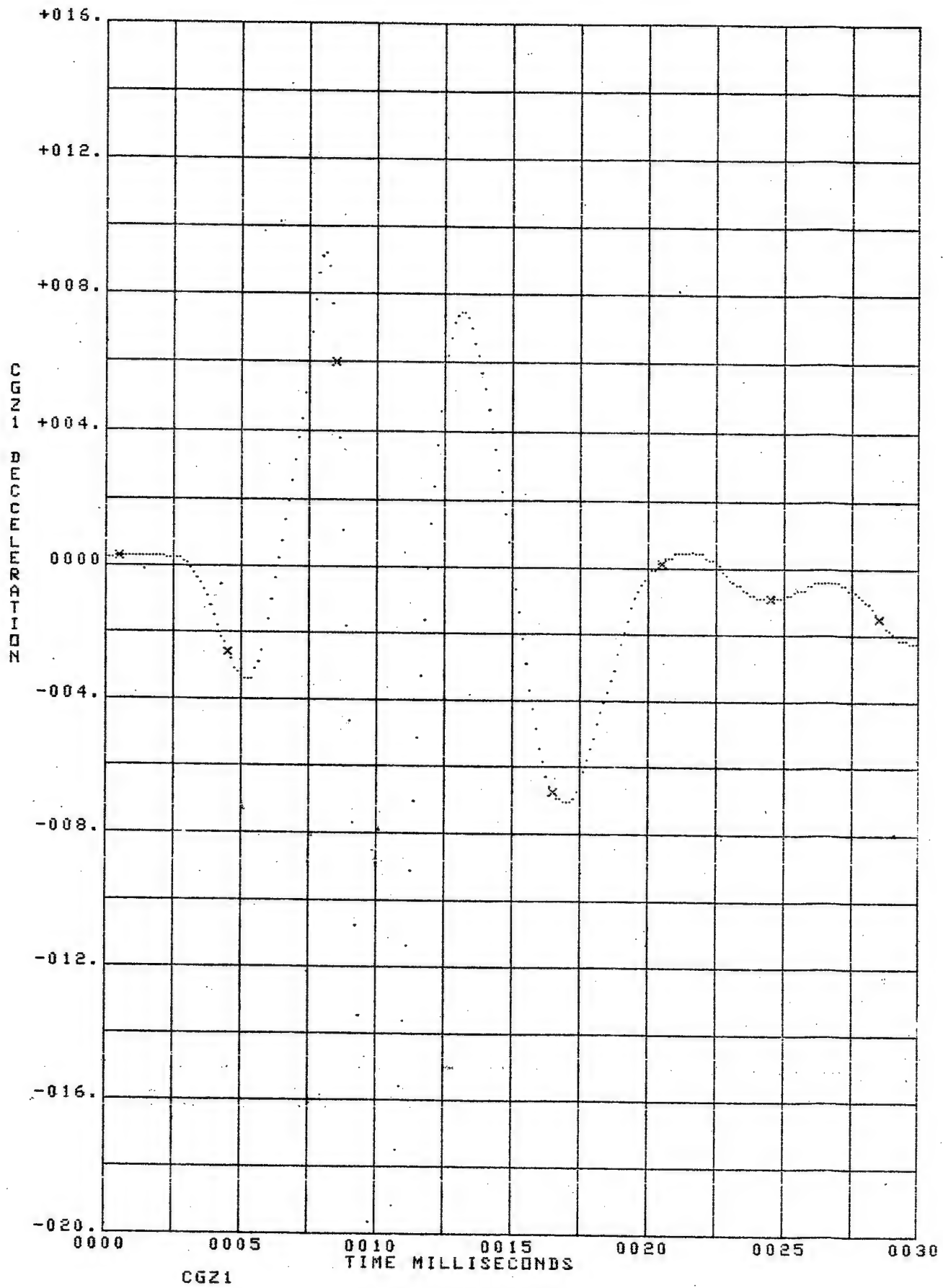
CHEST IMPACT
TEST C016

Chest Impact
Dummy No. 38, Run No. 2

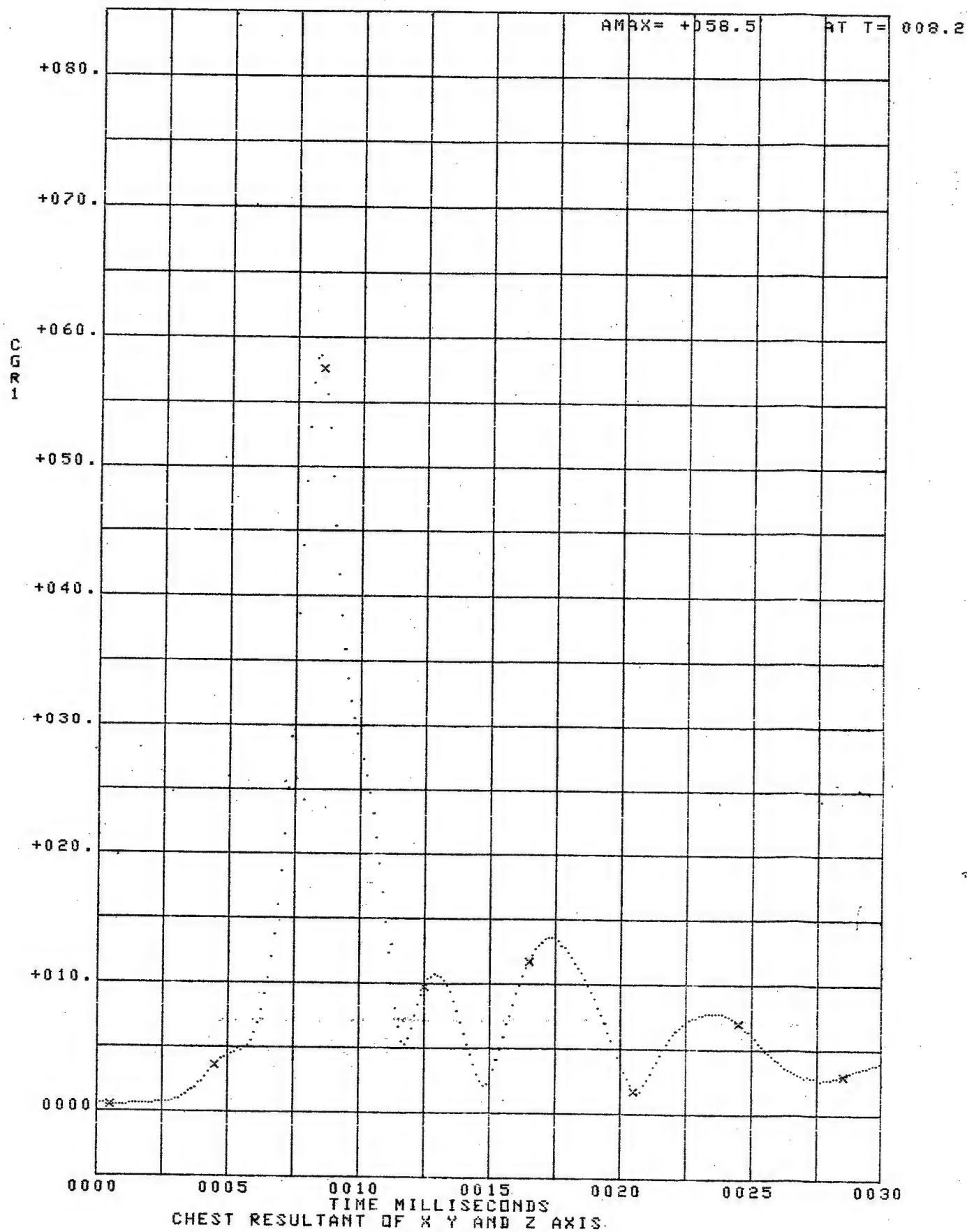




CHEST IMPACT
TEST C016



CHEST IMPACT
TEST C016



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C016

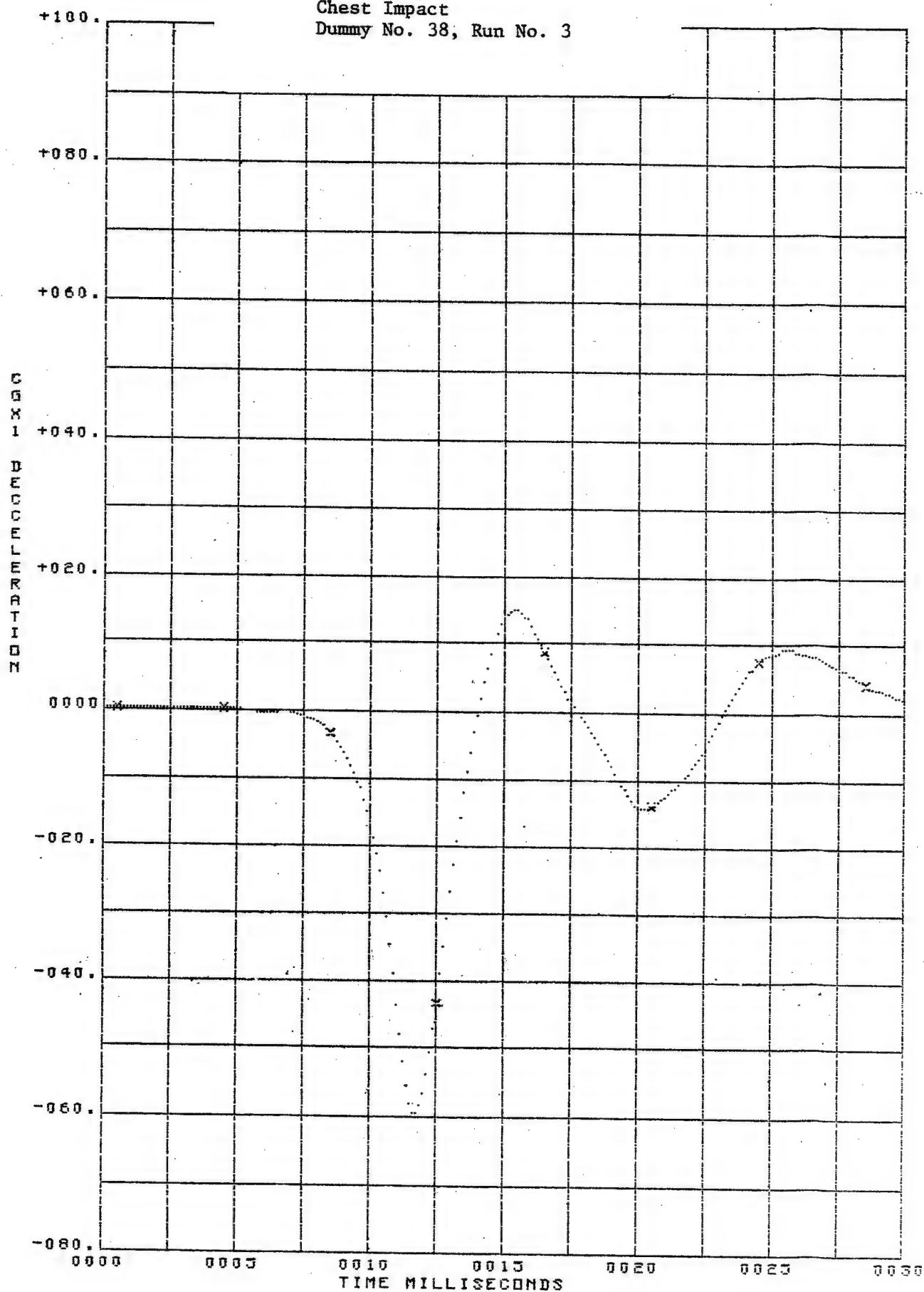
TIME					
0.0000	+000.2	+000.2	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.1
1.2500	+000.1	+000.2	+000.2	+000.2	+000.2
1.8750	+000.2	+000.2	+000.2	+000.2	+000.3
2.5000	+000.3	+000.3	+000.4	+000.5	+000.6
3.1250	+000.7	+001.0	+001.2	+001.3	+001.4
3.7500	+001.7	+001.9	+002.2	+002.6	+002.8
4.3750	+003.1	+003.3	+003.7	+003.8	+003.9
5.0000	+004.1	+004.2	+004.3	+004.3	+004.5
5.6250	+004.6	+005.0	+005.7	+006.4	+007.3
6.2500	+008.6	+009.9	+011.4	+013.3	+015.5
6.8750	+018.0	+021.0	+024.5	+028.6	+033.3
7.5000	+038.3	+043.6	+048.7	+053.0	+056.5
8.1250	+058.4	+058.5	+057.6	+055.6	+052.9
8.7500	+049.1	+045.1	+041.4	+038.2	+035.5
9.3750	+033.2	+031.4	+030.1	+028.9	+027.8
10.0000	+026.8	+025.6	+024.1	+022.6	+020.7
10.6250	+018.7	+016.5	+014.3	+011.9	+009.6
11.2500	+007.6	+006.1	+005.0	+004.7	+005.2
11.8750	+006.0	+007.0	+007.9	+008.6	+009.2
12.5000	+009.8	+010.0	+010.3	+010.1	+010.0
13.1250	+009.8	+009.4	+008.9	+008.1	+007.3
13.7500	+006.5	+005.7	+004.8	+004.0	+003.2
14.3750	+002.5	+002.0	+001.7	+001.8	+002.2
15.0000	+002.9	+003.6	+004.4	+005.4	+006.3
15.6250	+007.1	+007.9	+008.7	+009.4	+010.1
16.2500	+010.7	+011.2	+011.8	+012.2	+012.5
16.8750	+012.7	+013.0	+013.1	+013.1	+013.1
17.5000	+012.9	+012.6	+012.3	+012.0	+011.6
18.1250	+011.1	+010.7	+010.3	+009.8	+009.3
18.7500	+008.9	+008.3	+007.8	+007.1	+006.4
19.3750	+005.7	+005.1	+004.5	+003.9	+003.3
20.0000	+002.7	+002.3	+001.7	+001.3	+001.2
20.6250	+001.3	+001.7	+002.2	+002.6	+003.1
21.2500	+003.6	+004.0	+004.5	+004.9	+005.3
21.8750	+005.6	+005.9	+006.1	+006.4	+006.5
22.5000	+006.8	+006.8	+006.9	+007.2	+007.2
23.1250	+007.2	+007.2	+007.2	+007.3	+007.3
23.7500	+007.3	+007.2	+007.0	+006.8	+006.6
24.3750	+006.5	+006.2	+006.0	+005.8	+005.5
25.0000	+005.3	+005.0	+004.7	+004.4	+004.2
25.6250	+004.0	+003.7	+003.6	+003.3	+003.2
26.2500	+003.0	+002.9	+002.8	+002.6	+002.5
26.8750	+002.4	+002.5	+002.4	+002.4	+002.2
27.5000	+002.2	+002.2	+002.2	+002.3	+002.3
28.1250	+002.3	+002.5	+002.5	+002.6	+002.8
28.7500	+002.8	+003.0	+003.0	+003.2	+003.2
29.3750	+003.2	+003.3	+003.4	+003.4	+003.4
30.0000	+003.5	+003.5	+003.6	+003.6	+003.5
30.6250	+003.6	+003.5	+003.7	+003.6	+003.7
31.2500	+003.7	+003.7	+003.9	+003.8	+003.9
31.8750	+004.0	+004.0	+004.1	+004.3	+004.4
32.5000	+004.5	+004.5	+004.6	+004.7	+004.8
33.1250	+004.9	+005.0	+005.0	+005.1	+005.2
33.7500	+005.2	+005.3	+005.4	+005.4	+005.4
34.3750	+005.4	+005.5	+005.4	+005.4	+005.4
35.0000	+005.4	+005.3	+005.2	+005.2	+005.1
35.6250	+005.0	+004.9	+004.8	+004.7	+004.6
36.2500	+004.4	+004.4	+004.2	+004.1	+004.0
36.8750	+003.9	+003.7	+003.6	+003.5	+003.3

RESULTANT (CGR1) DF	CGX1	CGY1	CGZ1	C016		
37.5000	+003.2	+003.0	+003.0	+003.0	+003.0	+002.8
38.1250	+002.8	+002.7	+002.7	+002.5	+002.5	+002.5
38.7500	+002.5	+002.4	+002.4	+002.4	+002.4	+002.3
39.3750	+002.3	+002.3	+002.3	+002.3	+002.4	+002.4
40.0000	+002.4	+002.4	+002.5	+002.5	+002.5	+002.5
40.6250	+002.5	+002.6	+002.6	+002.6	+002.6	+002.6
41.2500	+002.6	+002.6	+002.8	+002.8	+002.8	+002.8
41.8750	+002.8	+002.8	+002.8	+002.8	+002.8	+002.8
42.5000	+002.8	+002.8	+002.8	+002.8	+002.8	+002.8
43.1250	+002.8	+002.8	+002.8	+002.8	+002.9	+002.9
43.7500	+002.9	+003.0	+003.0	+003.0	+003.0	+003.0
44.3750	+003.0	+003.0	+003.0	+003.0	+003.0	+003.0
45.0000	+003.0	+003.0	+003.1	+003.1	+003.1	+003.0
45.6250	+003.1	+003.0	+003.1	+003.1	+003.1	+003.1
46.2500	+003.1	+003.1	+003.1	+003.1	+003.1	+003.1
46.8750	+003.1	+003.2	+003.2	+003.2	+003.2	+003.2
47.5000	+003.2	+003.2	+003.2	+003.2	+003.2	+003.2
48.1250	+003.1	+003.1	+002.9	+002.9	+002.9	+002.9
48.7500	+003.0	+002.9	+002.9	+002.8	+002.8	+002.8
49.3750	+002.8	+002.7	+002.8	+002.7	+002.7	+002.7
50.0000	+002.7	+002.7	+002.6	+002.6	+002.6	+002.5
50.6250	+002.5	+002.6	+002.5	+002.5	+002.5	+002.4
51.2500	+002.4	+002.4	+002.4	+002.4	+002.4	+002.3
51.8750	+002.3	+002.3	+002.3	+002.3	+002.3	+002.2
52.5000	+002.2	+002.2	+002.2	+002.2	+002.2	+002.2
53.1250	+002.3	+002.3	+002.3	+002.3	+002.3	+002.3
53.7500	+002.3	+002.3	+002.3	+002.4	+002.3	+002.3
54.3750	+002.3	+002.3	+002.3	+002.3	+002.3	+002.3
55.0000	+002.3	+002.3	+002.3	+002.2	+002.2	+002.2
55.6250	+002.2	+002.2	+002.2	+002.2	+002.2	+002.2
56.2500	+002.2	+002.1	+002.1	+002.1	+002.1	+002.1
56.8750	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
57.5000	+002.1	+002.1	+002.0	+002.2	+002.2	+002.2
58.1250	+002.2	+002.2	+002.1	+002.0	+002.0	+002.0
58.7500	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
59.3750	+002.1	+002.1	+002.1	+002.1	+002.1	+313.4

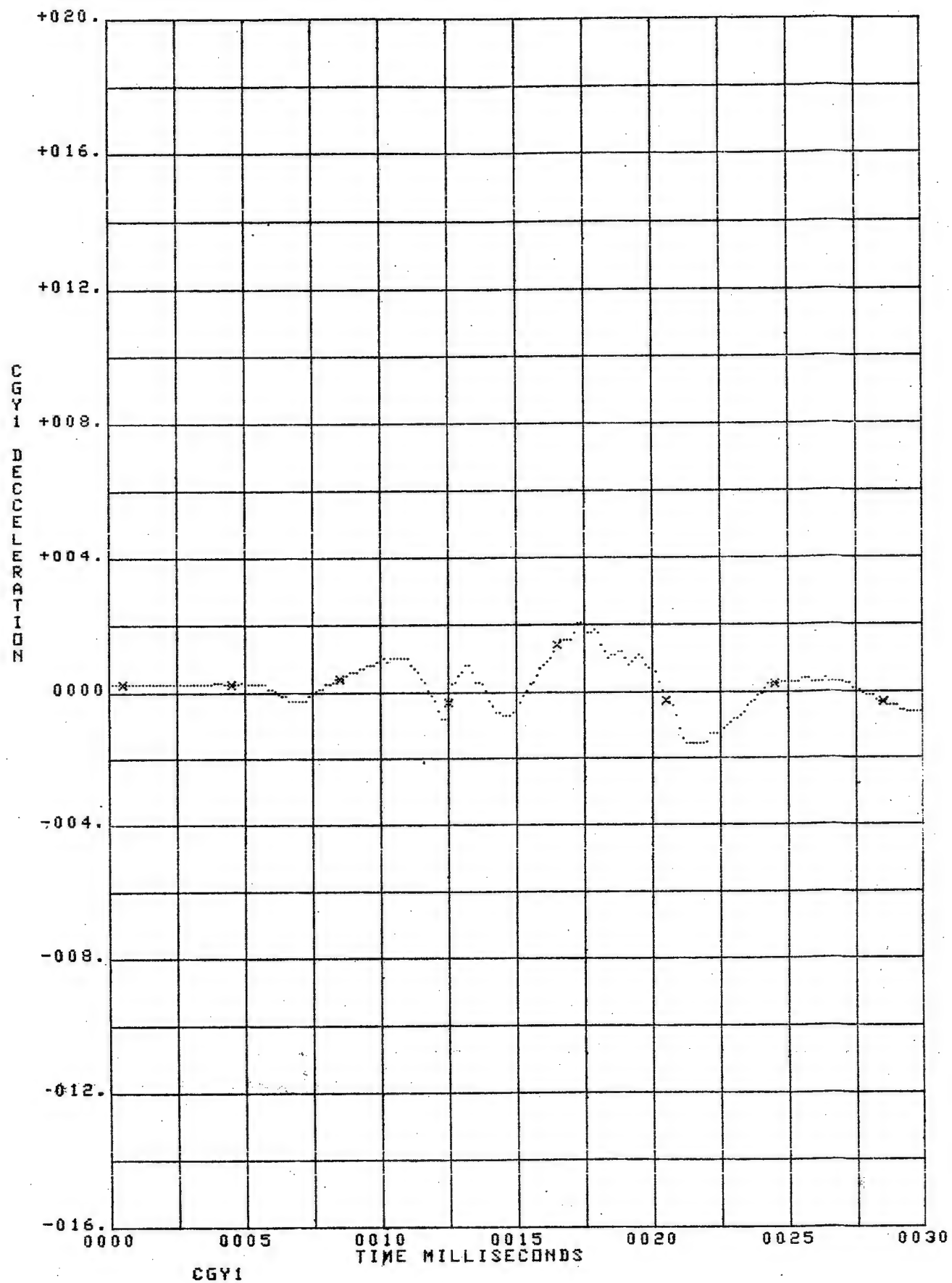
AMAX= +058.5

AT T=003.2

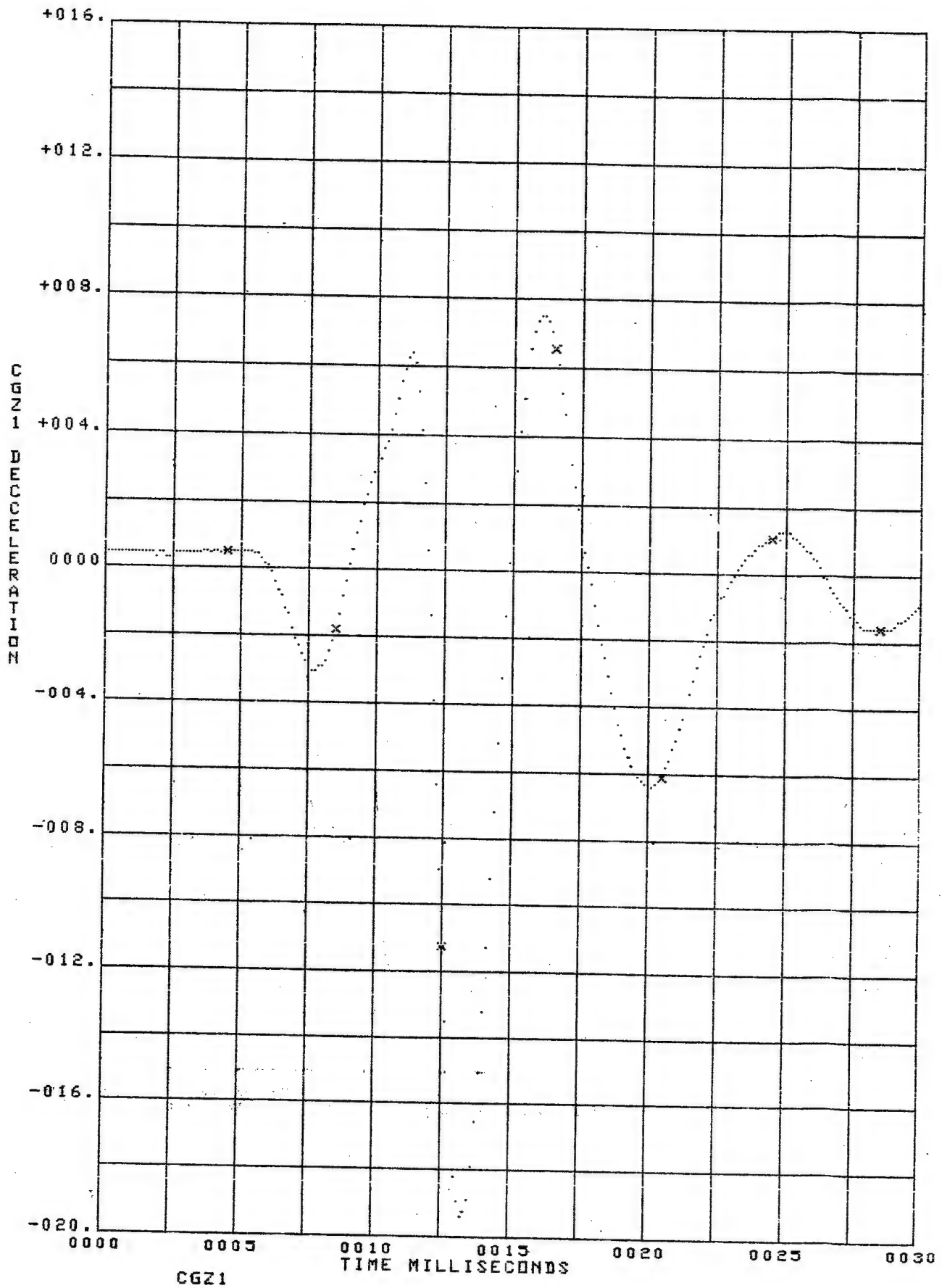
Chest Impact
Dummy No. 38, Run No. 3



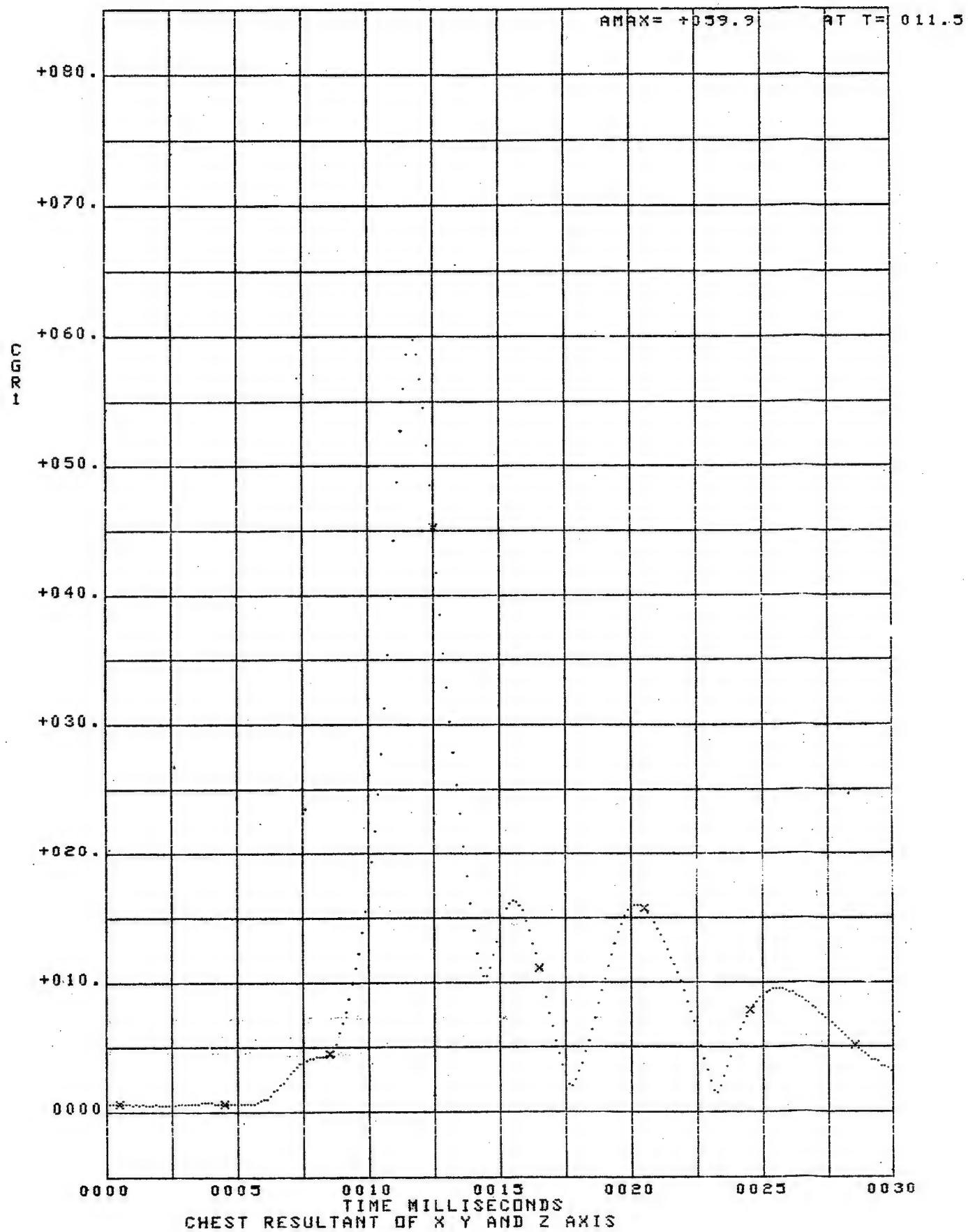
CHEST IMPACT
TEST C017



CHEST IMPACT
TEST C017



CHEST IMPACT
TEST C017



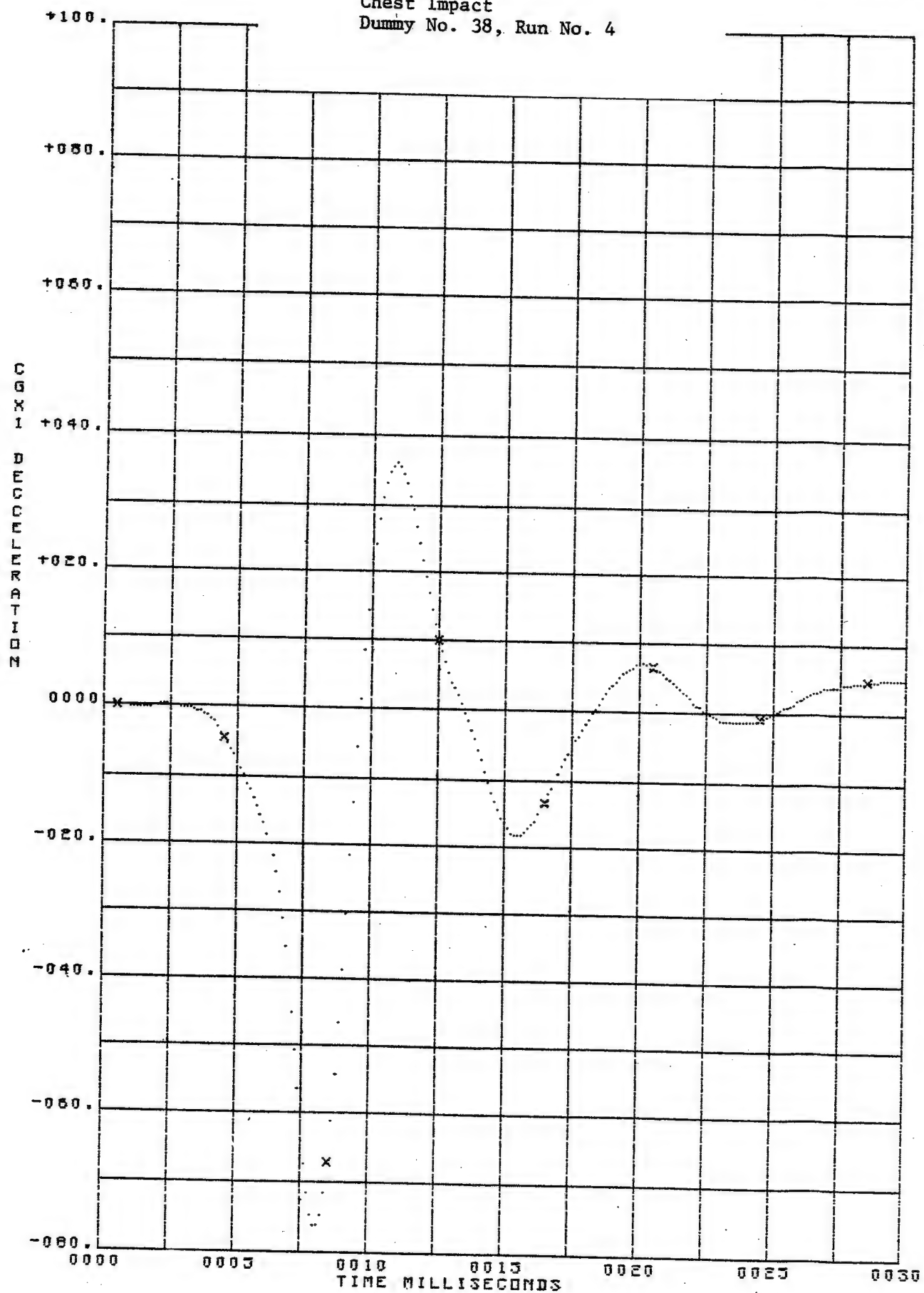
RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C017

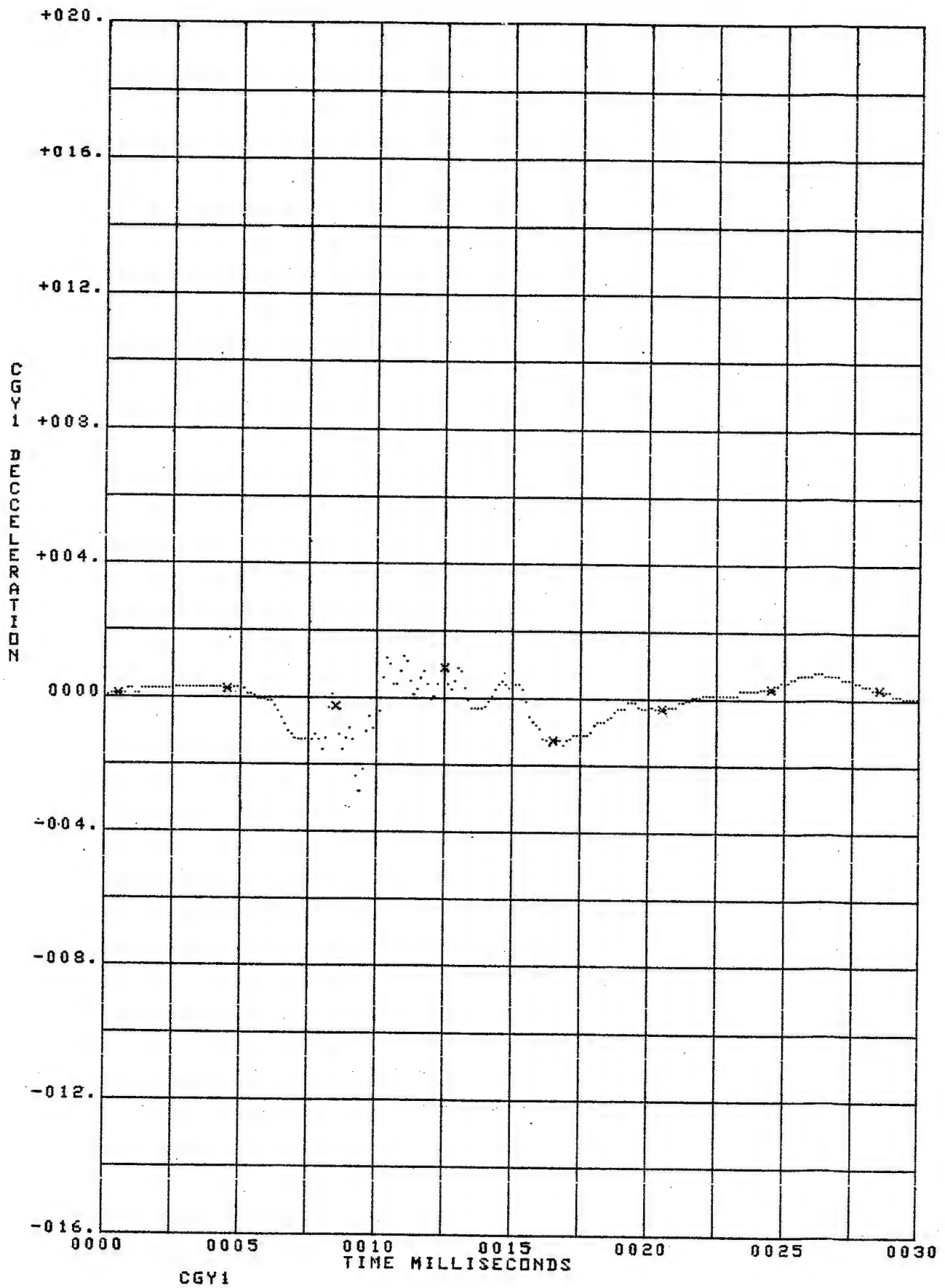
TIME					
0.0000	+000.1	+000.1	+000.1	+000.1	+000.1
0.6250	+000.1	+000.1	+000.0	+000.1	+000.0
1.2500	+000.1	+000.0	+000.0	+000.0	+000.1
1.8750	+000.0	+000.0	+000.0	+000.0	+000.0
2.5000	+000.0	+000.1	+000.1	+000.1	+000.1
3.1250	+000.1	+000.1	+000.2	+000.2	+000.2
3.7500	+000.2	+000.2	+000.2	+000.1	+000.1
4.3750	+000.1	+000.1	+000.1	+000.1	+000.1
5.0000	+000.1	+000.1	+000.1	+000.1	+000.1
5.6250	+000.2	+000.3	+000.4	+000.6	+000.8
6.2500	+001.1	+001.3	+001.6	+001.8	+002.2
6.8750	+002.5	+002.8	+003.0	+003.2	+003.5
7.5000	+003.6	+003.7	+003.7	+003.8	+003.8
8.1250	+003.7	+003.9	+004.0	+004.5	+004.8
8.7500	+005.7	+006.3	+007.2	+008.3	+009.3
9.3750	+010.6	+011.8	+013.3	+015.0	+016.9
10.0000	+018.9	+021.2	+024.1	+027.2	+030.8
10.6250	+035.0	+039.4	+044.0	+048.6	+052.7
11.2500	+056.0	+058.5	+059.9	+059.6	+058.6
11.8750	+056.7	+054.4	+051.5	+048.4	+045.0
12.5000	+041.5	+038.2	+035.2	+032.4	+029.8
13.1250	+027.4	+024.9	+022.5	+020.1	+017.7
13.7500	+015.6	+013.5	+011.8	+010.6	+010.0
14.3750	+010.1	+010.6	+011.6	+012.6	+013.5
15.0000	+014.4	+015.1	+015.6	+015.8	+015.7
15.6250	+015.5	+015.1	+014.2	+013.5	+012.6
16.2500	+011.7	+010.6	+009.6	+008.3	+007.2
16.8750	+006.1	+005.0	+004.0	+003.1	+002.4
17.5000	+001.7	+001.6	+002.0	+002.6	+003.2
18.1250	+004.2	+005.0	+005.9	+006.8	+007.8
18.7500	+008.9	+009.7	+010.7	+011.6	+012.5
19.3750	+013.3	+014.0	+014.6	+015.0	+015.3
20.0000	+015.5	+015.5	+015.5	+015.2	+014.8
20.6250	+014.5	+014.0	+013.6	+013.1	+012.6
21.2500	+012.0	+011.4	+010.8	+010.2	+009.6
21.8750	+008.9	+008.0	+007.3	+006.5	+005.5
22.5000	+004.6	+003.7	+002.7	+001.8	+001.1
23.1250	+001.0	+001.5	+002.2	+003.0	+003.8
23.7500	+004.5	+005.2	+005.9	+006.4	+006.9
24.3750	+007.4	+007.7	+008.0	+008.3	+008.6
25.0000	+008.7	+008.9	+009.0	+009.0	+009.0
25.6250	+009.0	+008.9	+008.8	+008.7	+008.5
26.2500	+008.3	+008.2	+008.0	+007.9	+007.6
26.8750	+007.5	+007.2	+007.0	+006.8	+006.6
27.5000	+006.3	+006.1	+005.8	+005.7	+005.4
28.1250	+005.1	+004.9	+004.6	+004.4	+004.2
28.7500	+004.0	+003.8	+003.6	+003.5	+003.3
29.3750	+003.0	+003.0	+002.8	+002.6	+002.5
30.0000	+002.5	+002.3	+002.3	+002.2	+002.1
30.6250	+002.1	+002.0	+001.9	+002.0	+001.9
31.2500	+002.0	+002.0	+002.1	+002.2	+002.2
31.8750	+002.2	+002.4	+002.4	+002.4	+002.5
32.5000	+002.6	+002.7	+002.9	+002.9	+003.0
33.1250	+003.0	+003.1	+003.2	+003.3	+003.3
33.7500	+003.4	+003.4	+003.5	+003.5	+003.5
34.3750	+003.6	+003.5	+003.6	+003.7	+003.6
35.0000	+003.8	+003.8	+003.8	+003.9	+003.9
35.6250	+004.0	+004.0	+004.2	+004.2	+004.3
36.2500	+004.3	+004.4	+004.5	+004.5	+004.6
36.8750	+004.7	+004.7	+004.8	+004.8	+004.8

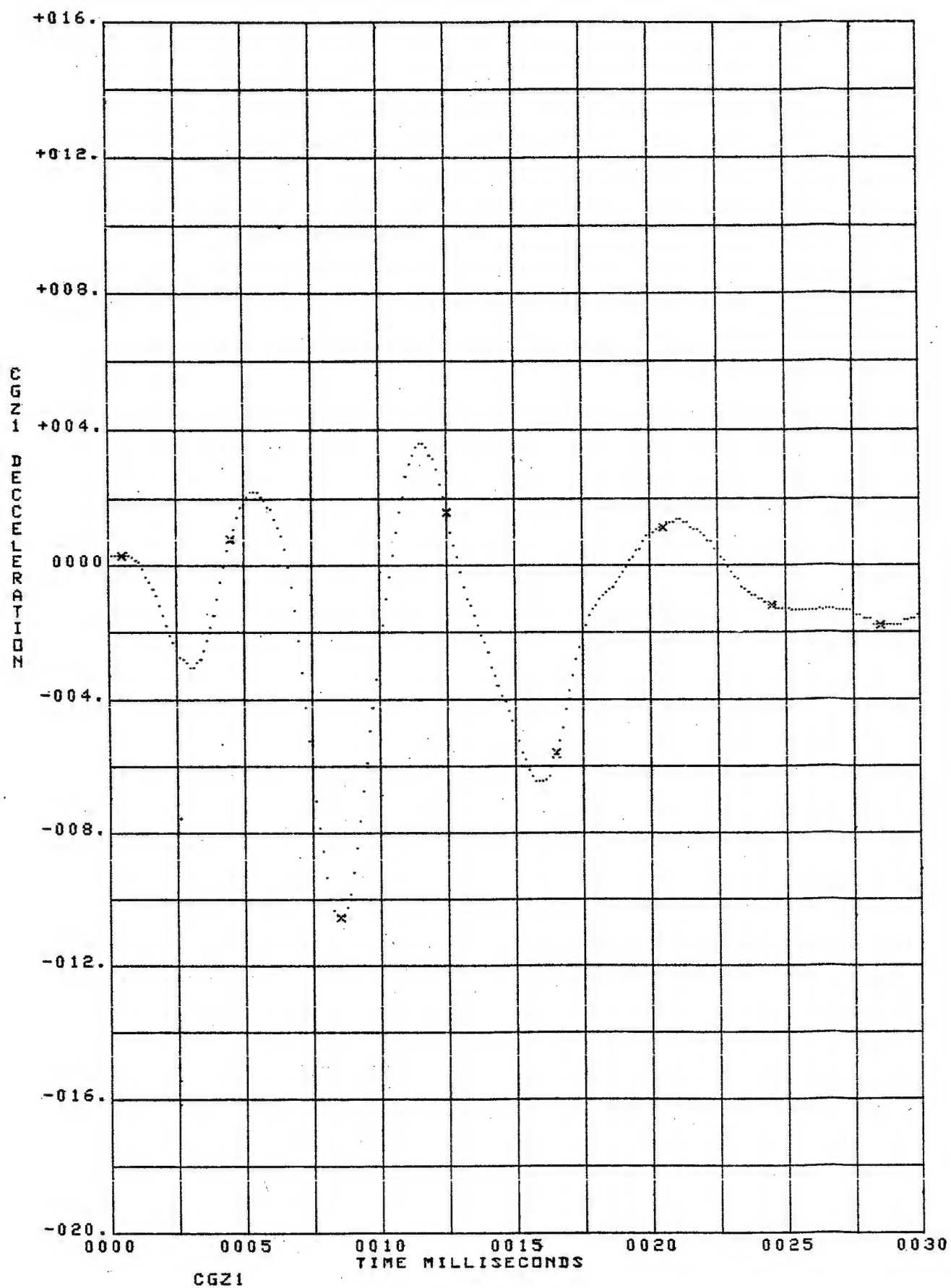
RESULTANT (CGR1) DF	CGX1	CGY1	CGZ1	C017	
37.5000	+004.8	+004.9	+004.9	+004.9	+004.8
38.1250	+004.7	+004.7	+004.7	+004.7	+004.6
38.7500	+004.5	+004.4	+004.4	+004.4	+004.2
39.3750	+004.0	+003.9	+003.9	+003.8	+003.6
40.0000	+003.5	+003.5	+003.3	+003.3	+003.2
40.6250	+003.0	+003.0	+003.0	+002.9	+002.9
41.2500	+002.9	+002.9	+002.8	+002.8	+002.8
41.8750	+002.8	+002.8	+002.8	+002.8	+002.8
42.5000	+002.8	+002.8	+002.8	+002.8	+002.8
43.1250	+002.8	+002.8	+002.8	+002.8	+002.8
43.7500	+002.8	+002.8	+002.8	+002.8	+002.8
44.3750	+002.8	+002.8	+002.8	+002.8	+002.8
45.0000	+002.8	+002.8	+002.8	+002.8	+002.8
45.6250	+002.8	+002.8	+002.8	+002.7	+002.7
46.2500	+002.7	+002.7	+002.7	+002.7	+002.7
46.8750	+002.9	+002.8	+002.8	+002.9	+002.9
47.5000	+002.9	+002.9	+002.9	+002.9	+002.9
48.1250	+002.9	+002.9	+002.9	+002.9	+003.1
48.7500	+003.1	+003.1	+003.1	+003.1	+003.1
49.3750	+003.1	+003.1	+003.2	+003.2	+003.3
50.0000	+003.3	+003.3	+003.4	+003.4	+003.3
50.6250	+003.4	+003.4	+003.4	+003.4	+003.4
51.2500	+003.4	+003.4	+003.4	+003.4	+003.4
51.8750	+003.4	+003.4	+003.3	+003.3	+003.3
52.5000	+003.3	+003.2	+003.2	+003.2	+003.2
53.1250	+003.2	+003.1	+003.1	+003.1	+003.1
53.7500	+003.0	+003.1	+003.0	+003.0	+002.9
54.3750	+002.9	+002.8	+002.8	+002.8	+002.8
55.0000	+002.7	+002.7	+002.7	+002.7	+002.6
55.6250	+002.4	+002.5	+002.4	+002.4	+002.4
56.2500	+002.3	+002.3	+002.3	+002.3	+002.3
56.8750	+002.3	+002.3	+002.3	+002.3	+002.2
57.5000	+002.2	+002.2	+002.2	+002.1	+002.1
58.1250	+002.1	+002.1	+002.2	+002.1	+002.2
58.7500	+002.1	+002.2	+002.1	+002.1	+002.1
59.3750	+002.1	+002.1	+002.1	+002.1	+313.4

AMAX= +059.9 AT T=011.5

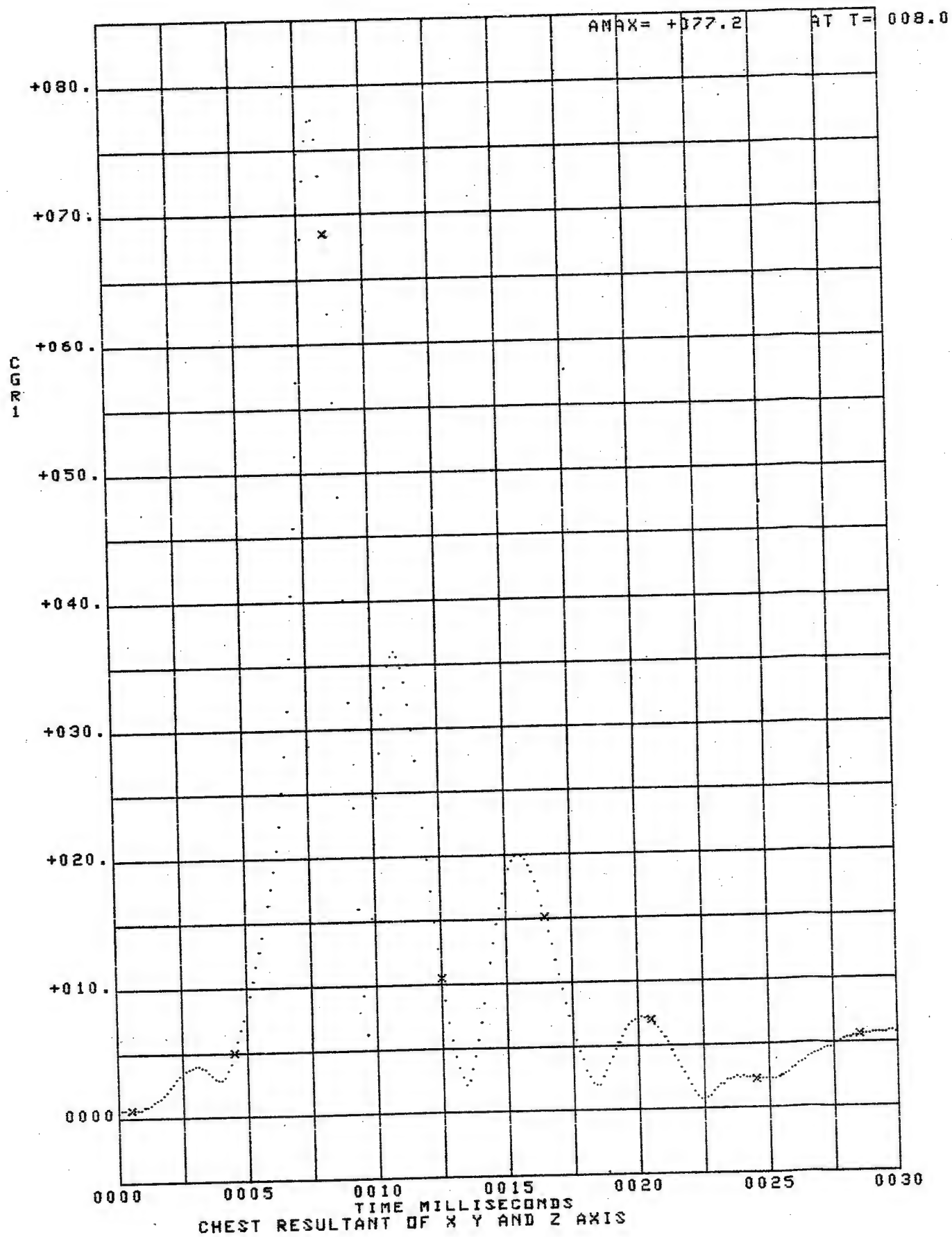
Chest Impact
Dummy No. 38, Run No. 4







CHEST IMPACT
TEST C006



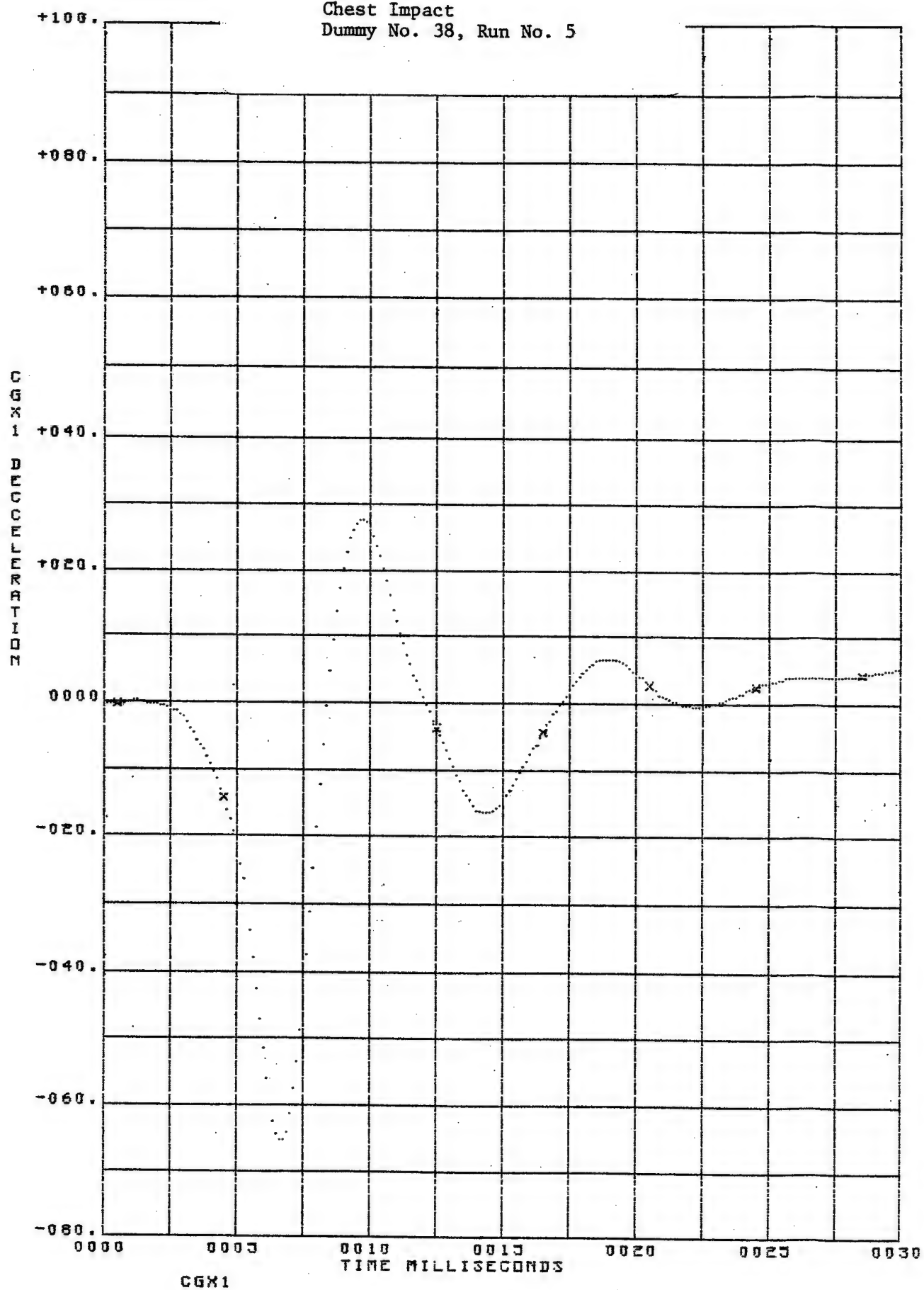
RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C006

TIME					
0.0000	+000.2	+000.1	+000.0	+000.1	+000.1
0.6250	+000.1	+000.2	+000.3	+000.4	+000.5
1.2500	+000.7	+001.0	+001.1	+001.3	+001.5
1.8750	+001.8	+002.1	+002.5	+002.7	+002.9
2.5000	+003.1	+003.2	+003.3	+003.4	+003.5
3.1250	+003.3	+003.2	+003.0	+002.8	+002.5
3.7500	+002.3	+002.4	+002.6	+003.2	+003.7
4.3750	+004.5	+005.4	+006.2	+007.1	+007.9
5.0000	+008.9	+010.0	+011.1	+012.2	+013.4
5.6250	+014.5	+015.9	+017.1	+018.4	+020.1
6.2500	+022.0	+024.6	+027.6	+031.0	+035.2
6.8750	+040.2	+045.5	+051.3	+057.1	+062.8
7.5000	+068.1	+072.6	+075.6	+077.2	+077.2
8.1250	+075.8	+072.9	+068.4	+062.3	+055.5
8.7500	+048.0	+039.8	+031.7	+023.3	+015.5
9.3750	+008.7	+005.7	+009.4	+014.7	+019.7
10.0000	+024.1	+027.7	+030.2	+032.8	+034.4
10.6250	+035.3	+035.7	+035.3	+034.3	+033.2
11.2500	+031.4	+029.4	+027.0	+024.5	+021.7
11.8750	+019.2	+016.8	+014.4	+012.2	+010.1
12.5000	+008.2	+006.5	+005.1	+003.9	+003.0
13.1250	+002.3	+001.7	+002.0	+002.9	+003.9
13.7500	+005.1	+006.5	+008.0	+009.5	+011.1
14.3750	+012.7	+014.0	+015.3	+016.5	+017.4
15.0000	+018.3	+019.0	+019.3	+019.4	+019.4
15.6250	+019.1	+018.7	+018.1	+017.4	+016.6
16.2500	+015.5	+014.6	+013.5	+012.4	+011.2
16.8750	+010.1	+009.0	+007.9	+006.9	+006.0
17.5000	+005.0	+004.2	+003.5	+002.7	+002.1
18.1250	+001.6	+001.5	+001.6	+002.1	+002.6
18.7500	+003.1	+003.7	+004.3	+004.8	+005.3
19.3750	+005.7	+006.1	+006.4	+006.6	+006.7
20.0000	+006.8	+006.7	+006.5	+006.4	+006.1
20.6250	+005.8	+005.5	+005.1	+004.7	+004.2
21.2500	+003.7	+003.2	+002.8	+002.4	+001.9
21.8750	+001.4	+001.0	+000.6	+000.2	+000.0
22.5000	+000.3	+000.5	+000.9	+001.1	+001.4
23.1250	+001.4	+001.8	+001.8	+001.9	+002.0
23.7500	+001.9	+002.0	+001.9	+001.9	+001.9
24.3750	+001.8	+001.7	+001.8	+001.8	+001.7
25.0000	+001.7	+001.8	+001.9	+002.0	+002.1
25.6250	+002.3	+002.5	+002.6	+002.8	+003.0
26.2500	+003.1	+003.3	+003.5	+003.6	+003.8
26.8750	+003.9	+004.0	+004.2	+004.2	+004.4
27.5000	+004.5	+004.6	+004.7	+004.8	+004.8
28.1250	+005.0	+005.0	+005.1	+005.1	+005.2
28.7500	+005.2	+005.2	+005.2	+005.2	+005.3
29.3750	+005.3	+005.4	+005.4	+005.3	+005.4
30.0000	+000.0	+000.0	+000.0	+000.0	+000.0
30.6250	+000.0	+000.0	+000.0	+000.0	+000.0
31.2500	+000.0	+000.0	+000.0	+000.0	+000.0
31.8750	+000.0	+000.0	+000.0	+000.0	+000.0
32.5000	+000.0	+000.0	+000.0	+000.0	+000.0
33.1250	+000.0	+000.0	+000.0	+000.0	+000.0
33.7500	+000.0	+000.0	+000.0	+000.0	+000.0
34.3750	+000.0	+000.0	+000.0	+000.0	+000.0
35.0000	+000.0	+000.0	+000.0	+000.0	+000.0
35.6250	+000.0	+000.0	+000.0	+000.0	+000.0
36.2500	+000.0	+000.0	+000.0	+000.0	+000.0
36.8750	+000.0	+000.0	+000.0	+000.0	+000.0

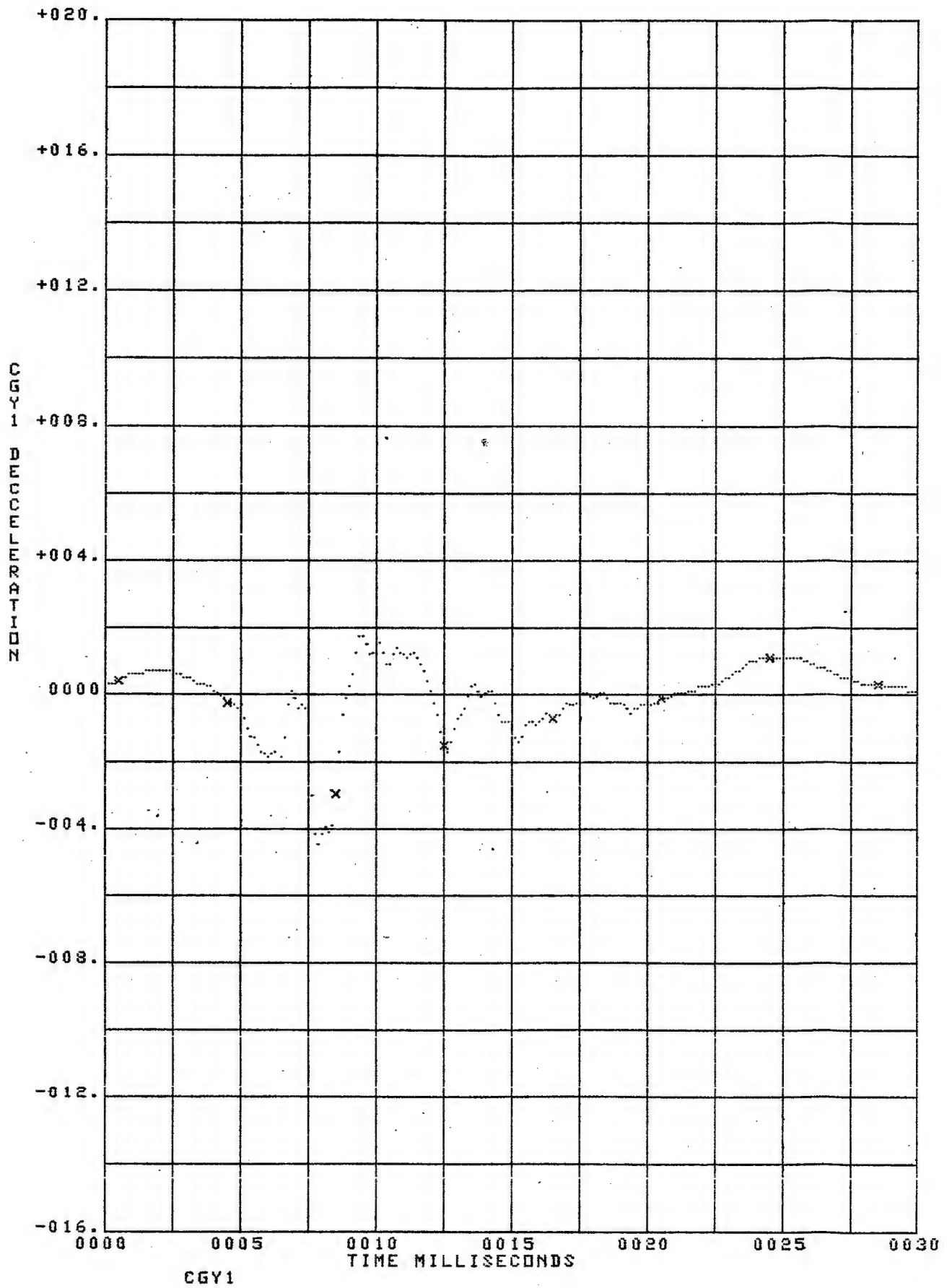
RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C006		
37.5000	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
38.1250	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
38.7500	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
39.3750	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
40.0000	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
40.6250	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
41.2500	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
41.8750	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
42.5000	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
43.1250	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
43.7500	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
44.3750	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
45.0000	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
45.6250	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
46.2500	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
46.8750	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
47.5000	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
48.1250	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
48.7500	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
49.3750	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
50.0000	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
50.6250	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
51.2500	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
51.8750	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
52.5000	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
53.1250	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
53.7500	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
54.3750	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
55.0000	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
55.6250	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
56.2500	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
56.8750	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
57.5000	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
58.1250	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
58.7500	+000.0	+000.0	+000.0	+000.0	+000.0	+000.0
59.3750	+000.0	+000.0	+000.0	+000.0	+000.0	+313.4

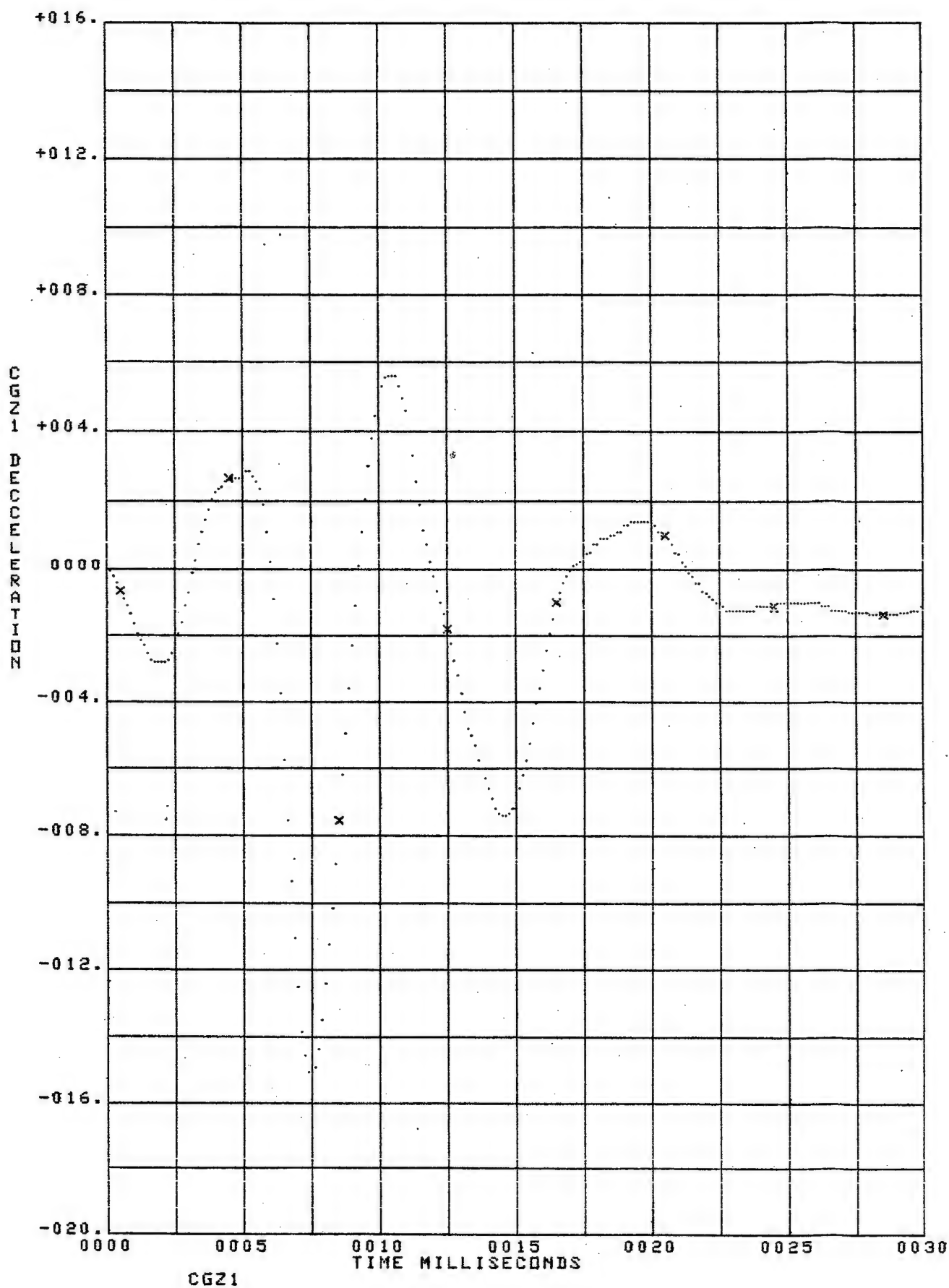
AMAX= +077.2 AT T=008.0

Chest Impact
Dummy No. 38, Run No. 5

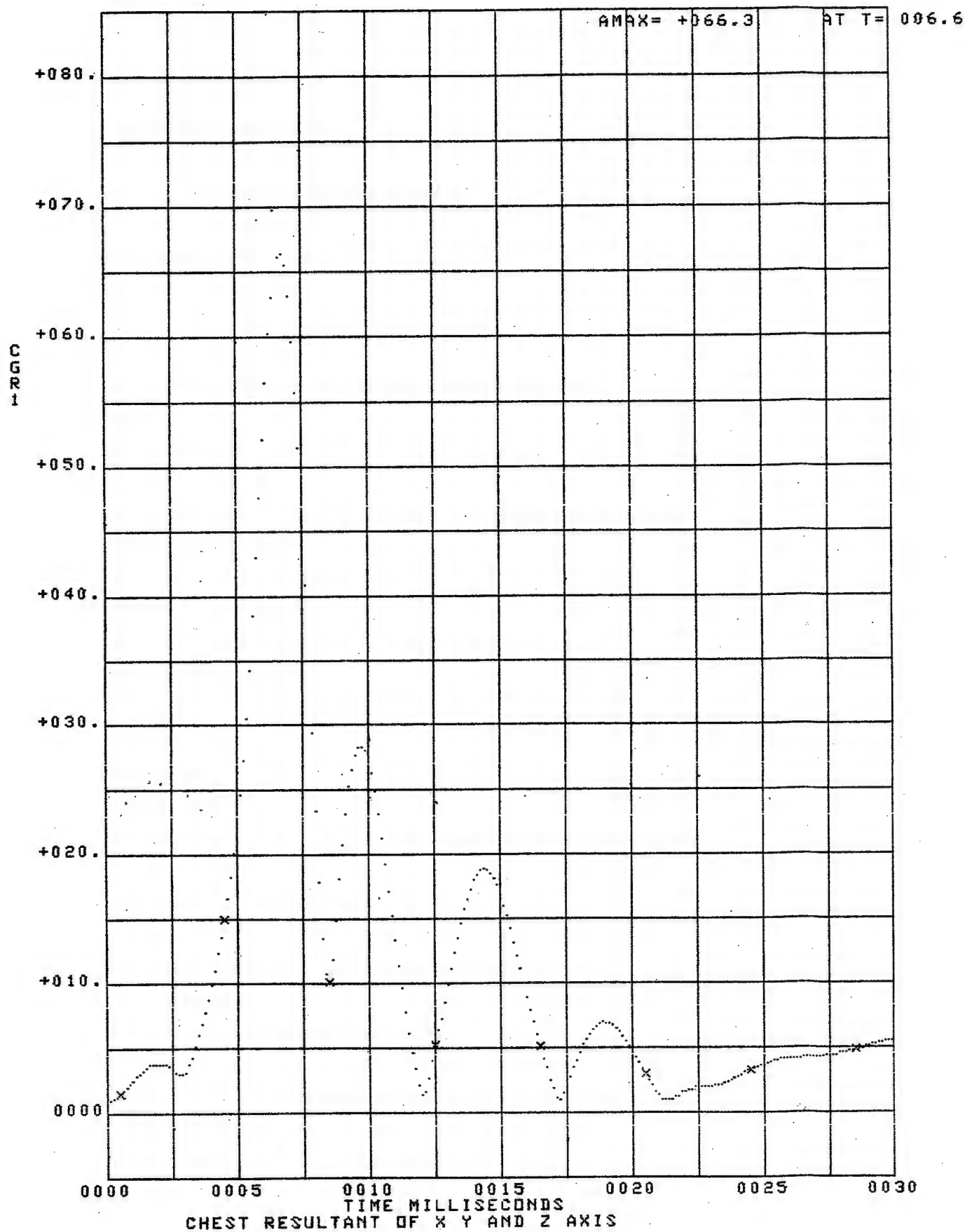


CHEST IMPACT
TEST C005





CHEST IMPACT
TEST C005



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C005

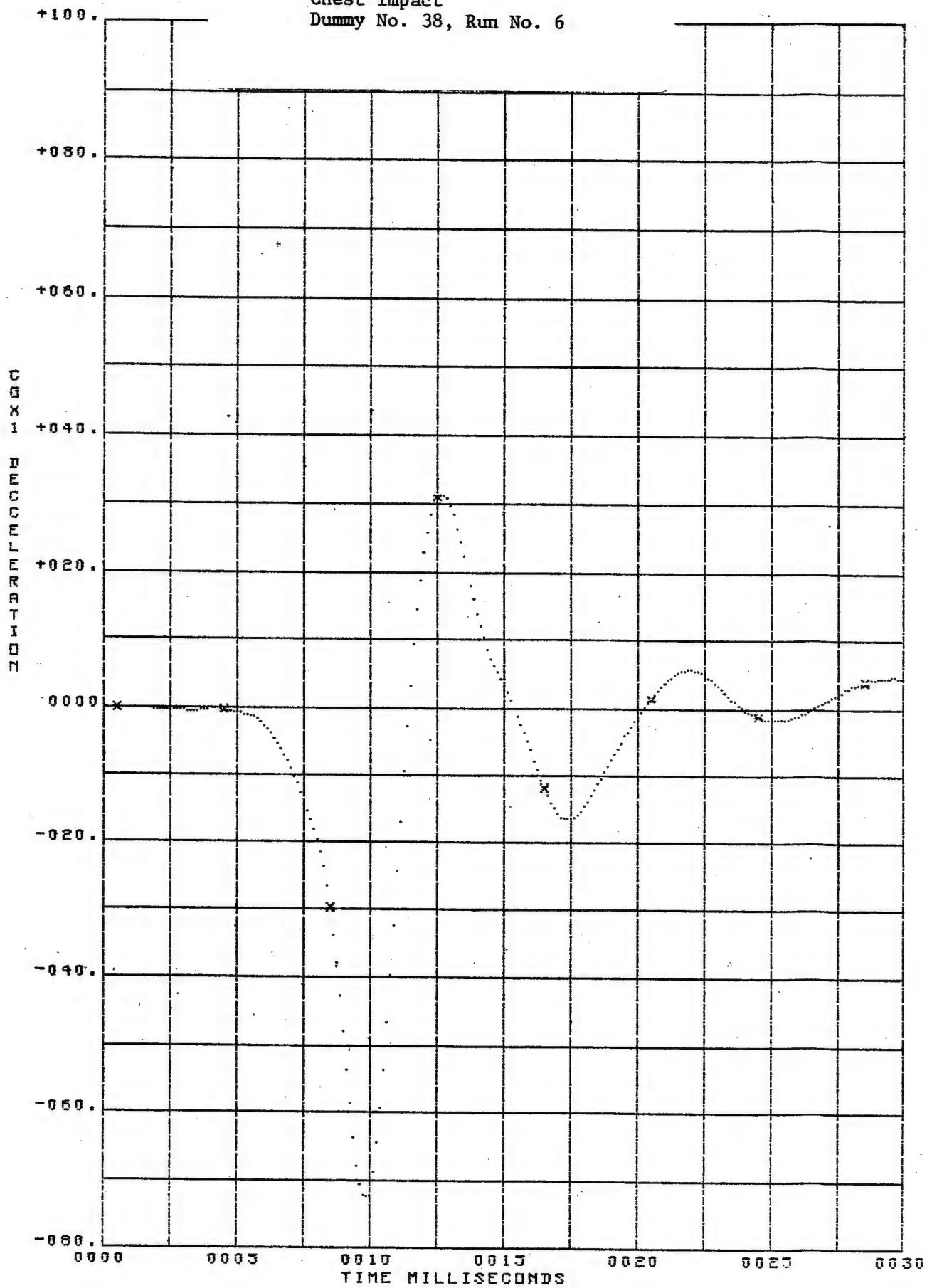
TIME					
0.0000	+000.5	+000.7	+000.8	+001.1	+001.3
0.6250	+001.5	+001.8	+002.1	+002.4	+002.5
1.2500	+002.8	+003.0	+003.2	+003.3	+003.3
1.8750	+003.3	+003.3	+003.2	+003.1	+002.8
2.5000	+002.7	+002.5	+002.5	+002.7	+003.2
3.1250	+003.8	+004.6	+005.5	+006.3	+007.2
3.7500	+008.3	+009.4	+010.5	+011.8	+013.1
4.3750	+014.5	+016.1	+017.7	+019.5	+021.6
5.0000	+024.0	+026.8	+030.0	+033.9	+038.1
5.6250	+042.8	+047.5	+052.1	+056.4	+060.2
6.2500	+062.9	+065.0	+066.1	+066.3	+065.5
6.8750	+063.1	+059.6	+055.7	+051.4	+046.3
7.5000	+040.6	+034.6	+028.9	+022.8	+017.4
8.1250	+013.0	+010.2	+009.7	+011.4	+014.4
8.7500	+017.5	+020.2	+022.6	+024.7	+026.0
9.3750	+027.0	+027.8	+027.8	+027.5	+026.8
10.0000	+025.7	+024.3	+022.6	+020.7	+018.7
10.6250	+016.6	+014.7	+012.8	+010.8	+009.0
11.2500	+007.3	+005.7	+004.1	+002.8	+001.7
11.8750	+000.9	+001.1	+002.1	+003.6	+004.8
12.5000	+005.8	+006.8	+008.0	+009.3	+010.6
13.1250	+011.9	+013.0	+014.1	+015.1	+016.0
13.7500	+016.7	+017.4	+017.8	+018.2	+018.3
14.3750	+018.2	+018.0	+017.6	+017.1	+016.3
15.0000	+015.5	+014.7	+013.8	+012.6	+011.5
15.6250	+010.6	+009.5	+008.3	+007.4	+006.4
16.2500	+005.5	+004.6	+003.7	+002.9	+002.1
16.8750	+001.4	+000.7	+000.5	+001.0	+001.6
17.5000	+002.3	+002.9	+003.5	+004.1	+004.7
18.1250	+005.1	+005.5	+005.9	+006.1	+006.3
18.7500	+006.4	+006.3	+006.3	+006.2	+006.0
19.3750	+005.7	+005.4	+005.0	+004.6	+004.2
20.0000	+003.7	+003.4	+002.8	+002.5	+002.1
20.6250	+001.6	+001.2	+000.9	+000.6	+000.4
21.2500	+000.5	+000.6	+000.7	+000.8	+001.1
21.8750	+001.1	+001.3	+001.3	+001.5	+001.5
22.5000	+001.6	+001.6	+001.6	+001.6	+001.6
23.1250	+001.6	+001.7	+001.8	+001.9	+002.0
23.7500	+002.1	+002.3	+002.4	+002.6	+002.7
24.3750	+002.8	+002.9	+003.0	+003.2	+003.2
25.0000	+003.2	+003.4	+003.4	+003.6	+003.7
25.6250	+003.6	+003.7	+003.6	+003.6	+003.7
26.2500	+003.7	+003.8	+003.8	+003.8	+003.8
26.8750	+003.8	+003.8	+003.9	+004.0	+003.9
27.5000	+004.0	+004.0	+004.1	+004.1	+004.2
28.1250	+004.3	+004.3	+004.3	+004.4	+004.4
28.7500	+004.6	+004.6	+004.7	+004.8	+004.9
29.3750	+004.8	+005.0	+005.0	+005.0	+005.1
30.0000	+005.1	+005.1	+005.1	+005.1	+005.2
30.6250	+005.2	+005.2	+005.1	+005.2	+005.1
31.2500	+005.1	+005.1	+005.1	+005.1	+005.1
31.8750	+005.1	+005.0	+005.0	+004.9	+004.9
32.5000	+004.8	+004.8	+004.7	+004.7	+004.6
33.1250	+004.5	+004.5	+004.4	+004.3	+004.3
33.7500	+004.1	+004.1	+003.9	+003.9	+003.8
34.3750	+003.6	+003.5	+003.5	+003.3	+003.3
35.0000	+003.2	+003.2	+003.0	+003.0	+002.8
35.6250	+002.8	+002.6	+002.5	+002.5	+002.5
36.2500	+002.3	+002.3	+002.3	+002.3	+002.3
36.8750	+002.1	+002.1	+002.1	+002.1	+002.1

RESULTANT (CGR1) DF	CGX1	CGY1	CGZ1	C005	
37.5000	+002.1	+002.2	+002.1	+002.2	+002.2
38.1250	+002.2	+002.2	+002.2	+002.2	+002.2
38.7500	+002.2	+002.2	+002.2	+002.2	+002.2
39.3750	+002.2	+002.2	+002.2	+002.2	+002.3
40.0000	+002.4	+002.4	+002.3	+002.3	+002.3
40.6250	+002.3	+002.4	+002.5	+002.5	+002.5
41.2500	+002.3	+002.3	+002.4	+002.4	+002.4
41.8750	+002.4	+002.4	+002.4	+002.4	+002.4
42.5000	+002.3	+002.3	+002.4	+002.5	+002.5
43.1250	+002.5	+002.5	+002.5	+002.5	+002.5
43.7500	+002.5	+002.5	+002.5	+002.6	+002.6
44.3750	+002.5	+002.6	+002.6	+002.6	+002.6
45.0000	+002.6	+002.6	+002.6	+002.6	+002.6
45.6250	+002.6	+002.6	+002.6	+002.5	+002.5
46.2500	+002.5	+002.5	+002.4	+002.5	+002.4
46.8750	+002.4	+002.4	+002.5	+002.4	+002.4
47.5000	+002.4	+002.4	+002.4	+002.3	+002.4
48.1250	+002.3	+002.2	+002.3	+002.2	+002.1
48.7500	+002.1	+002.2	+002.1	+002.1	+002.1
49.3750	+002.1	+002.1	+002.1	+002.1	+002.0
50.0000	+002.0	+002.0	+002.0	+002.0	+001.9
50.6250	+001.9	+001.9	+001.9	+001.9	+001.9
51.2500	+001.8	+001.8	+001.9	+001.9	+001.8
51.8750	+001.8	+001.9	+001.9	+001.9	+001.9
52.5000	+001.9	+001.9	+001.9	+001.9	+001.9
53.1250	+001.9	+002.0	+002.0	+002.0	+002.0
53.7500	+002.0	+002.1	+002.1	+002.1	+002.1
54.3750	+002.1	+002.1	+002.1	+002.1	+002.1
55.0000	+002.1	+002.1	+002.1	+002.1	+002.1
55.6250	+002.1	+002.1	+002.1	+002.1	+002.1
56.2500	+002.1	+002.1	+002.0	+002.0	+002.0
56.8750	+002.0	+002.0	+002.0	+002.0	+002.0
57.5000	+002.0	+002.0	+002.0	+002.0	+002.0
58.1250	+002.0	+002.0	+001.9	+001.9	+001.9
58.7500	+001.9	+001.9	+001.9	+001.9	+001.9
59.3750	+001.9	+001.9	+001.8	+001.9	+313.4

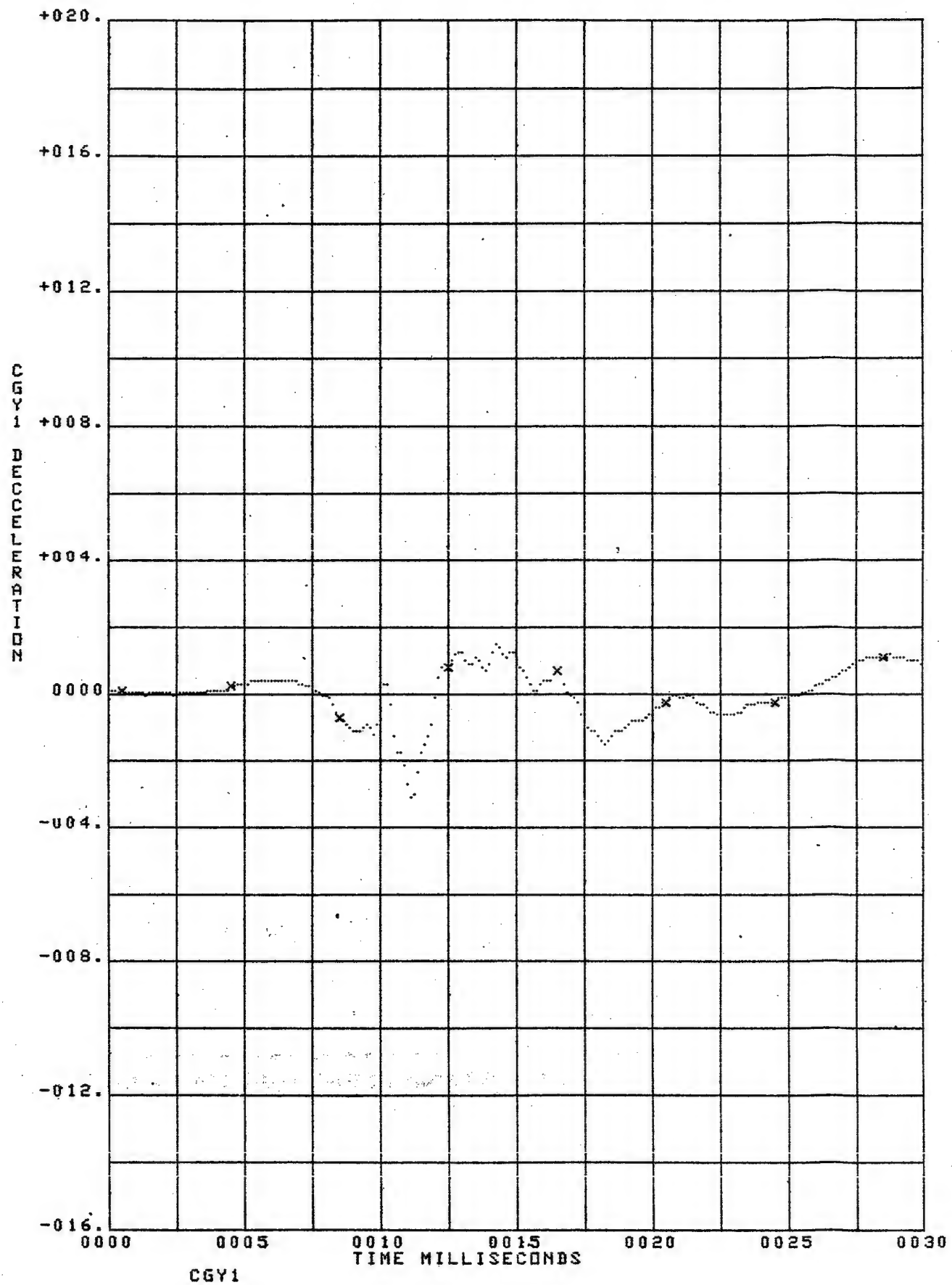
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AT T=006.6

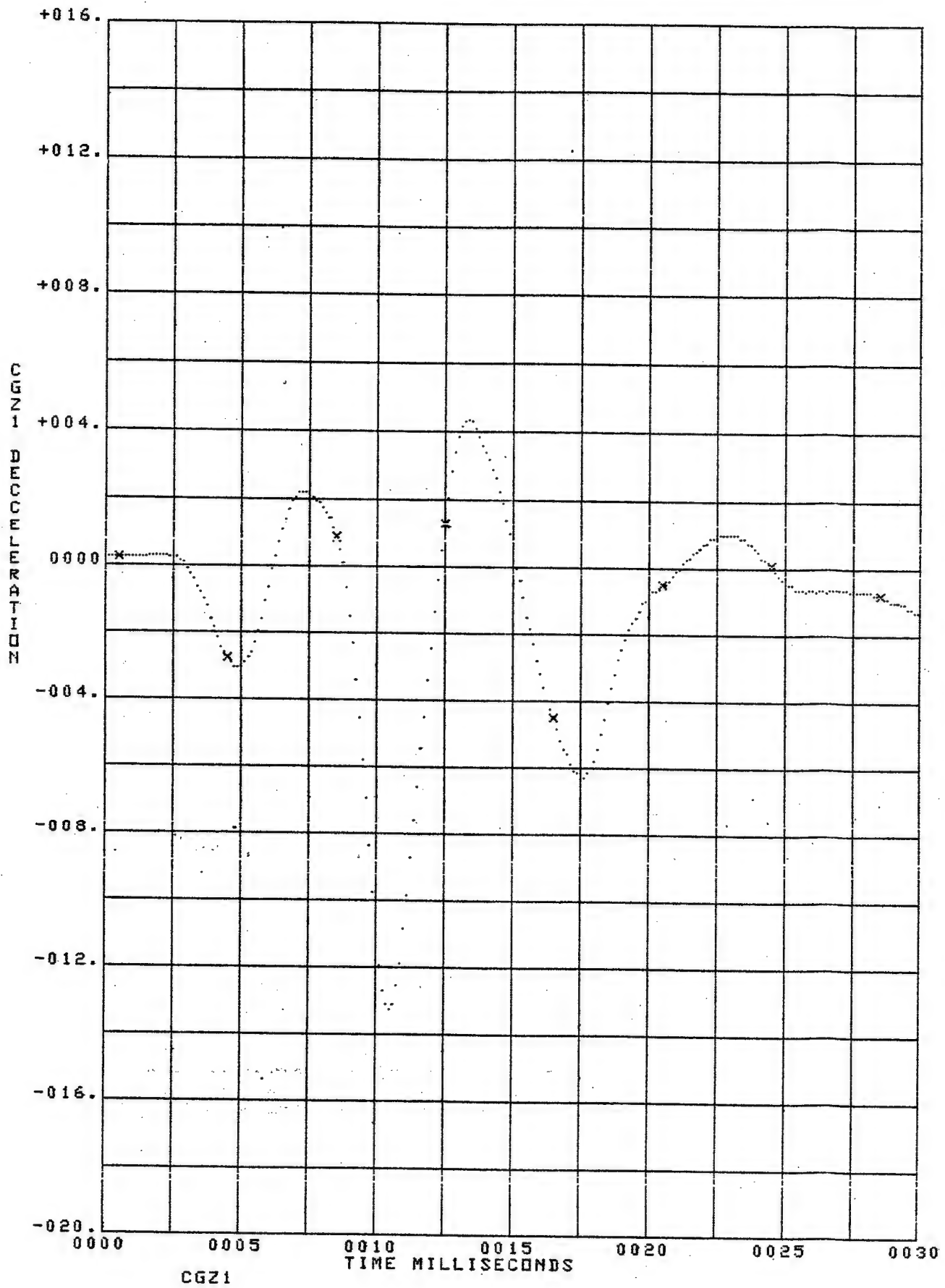
Chest Impact
Dummy No. 38, Run No. 6



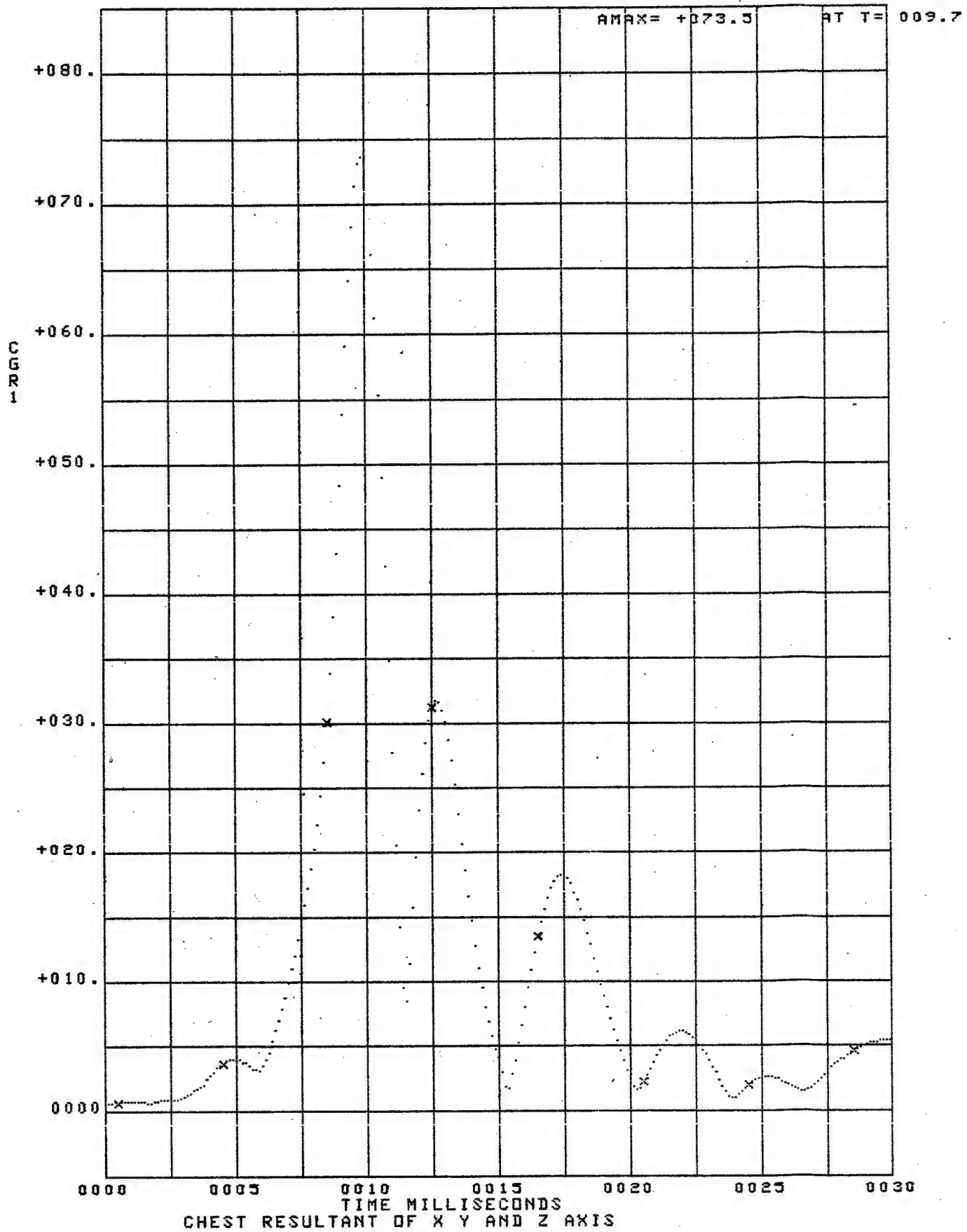
CHEST IMPACT
TEST C004



CHEST IMPACT
TEST C004



CHEST IMPACT
TEST C004



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C004

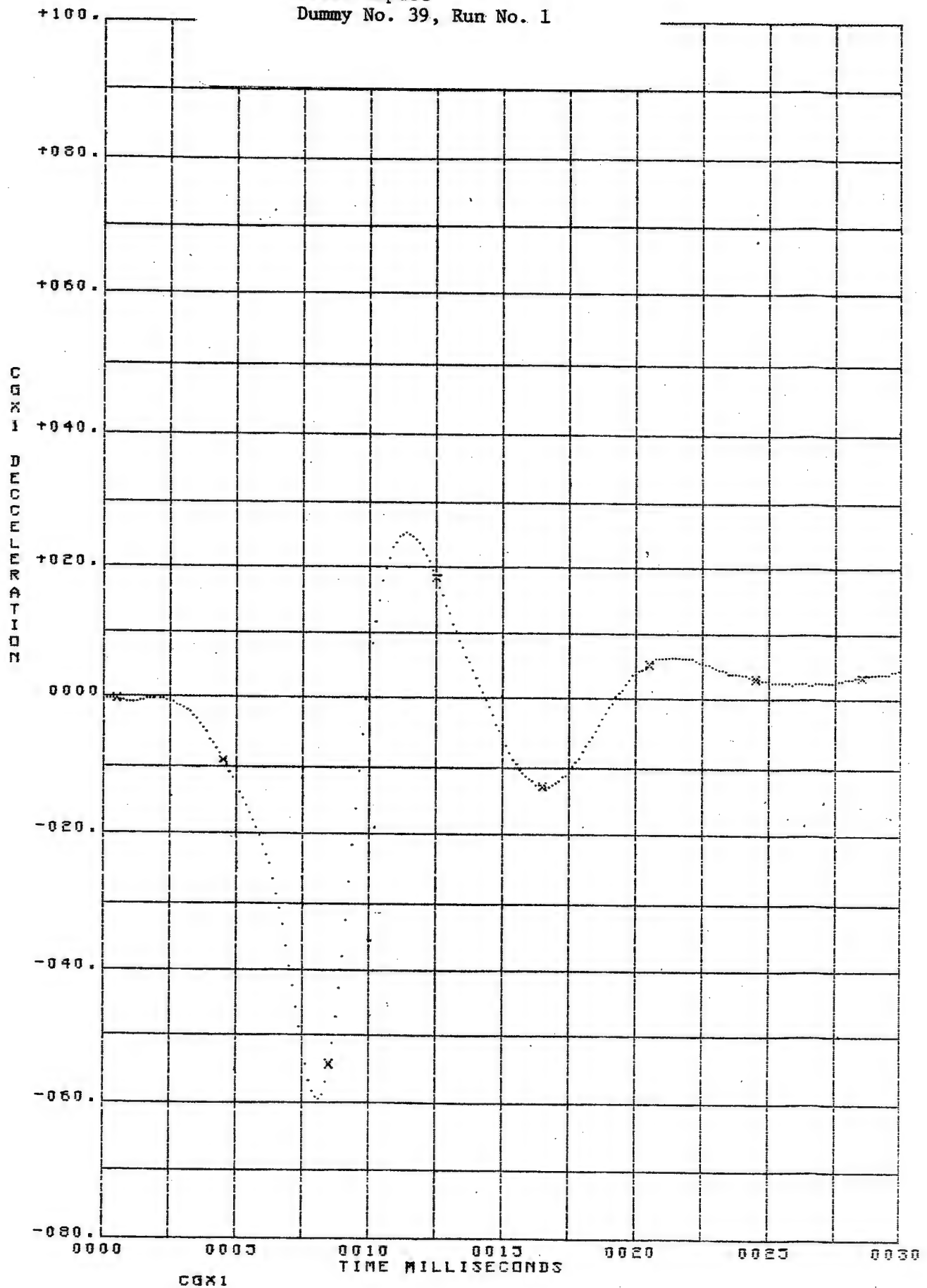
TIME					
0.0000	+000.1	+000.2	+000.2	+000.2	+000.2
0.6250	+000.2	+000.2	+000.2	+000.2	+000.2
1.2500	+000.3	+000.2	+000.2	+000.2	+000.3
1.8750	+000.3	+000.3	+000.3	+000.4	+000.3
2.5000	+000.3	+000.4	+000.5	+000.6	+000.8
3.1250	+000.9	+001.1	+001.3	+001.4	+001.6
3.7500	+002.0	+002.2	+002.5	+002.8	+003.0
4.3750	+003.2	+003.3	+003.5	+003.5	+003.5
5.0000	+003.4	+003.3	+003.2	+003.0	+002.8
5.6250	+002.8	+002.7	+003.0	+003.4	+004.0
6.2500	+004.8	+005.7	+006.5	+007.4	+008.3
6.8750	+009.3	+010.5	+011.5	+012.8	+014.0
7.5000	+015.4	+016.7	+018.1	+019.8	+021.6
8.1250	+023.8	+026.5	+029.7	+033.5	+037.9
8.7500	+042.9	+048.3	+053.8	+059.1	+064.0
9.3750	+068.2	+071.2	+073.0	+073.5	+072.4
10.0000	+069.9	+066.1	+061.2	+055.4	+048.9
10.6250	+041.9	+034.5	+027.2	+020.1	+013.7
11.2500	+009.0	+008.0	+010.9	+015.2	+019.1
11.8750	+022.7	+025.6	+028.1	+029.8	+030.8
12.5000	+031.3	+031.1	+030.6	+029.7	+028.3
13.1250	+026.6	+024.7	+022.4	+020.2	+018.1
13.7500	+016.1	+014.2	+012.2	+010.5	+009.0
14.3750	+007.5	+006.3	+005.3	+004.3	+003.4
15.0000	+002.5	+001.4	+001.3	+002.3	+003.4
15.6250	+004.7	+006.1	+007.5	+008.9	+010.3
16.2500	+011.7	+013.0	+014.1	+015.1	+015.9
16.8750	+016.7	+017.2	+017.5	+017.7	+017.6
17.5000	+017.5	+017.0	+016.5	+015.9	+015.0
18.1250	+014.2	+013.3	+012.3	+011.2	+010.3
18.7500	+009.3	+008.4	+007.5	+006.6	+005.7
19.3750	+004.8	+004.1	+003.3	+002.7	+001.9
20.0000	+001.4	+001.2	+001.3	+001.7	+002.3
20.6250	+002.8	+003.2	+003.8	+004.1	+004.5
21.2500	+004.9	+005.2	+005.4	+005.5	+005.6
21.8750	+005.6	+005.5	+005.3	+005.1	+004.9
22.5000	+004.6	+004.2	+003.9	+003.4	+002.9
23.1250	+002.5	+001.9	+001.4	+001.0	+000.7
23.7500	+000.5	+000.5	+000.7	+001.0	+001.3
24.3750	+001.5	+001.6	+001.8	+002.0	+002.0
25.0000	+002.1	+002.1	+002.1	+002.0	+002.0
25.6250	+001.8	+001.6	+001.5	+001.4	+001.3
26.2500	+001.1	+001.1	+001.0	+001.1	+001.2
26.8750	+001.5	+001.8	+002.0	+002.3	+002.5
27.5000	+002.8	+003.1	+003.3	+003.6	+003.6
28.1250	+003.8	+004.0	+004.2	+004.3	+004.4
28.7500	+004.6	+004.6	+004.8	+004.8	+004.8
29.3750	+004.9	+004.9	+004.9	+004.8	+004.8
30.0000	+004.9	+004.9	+004.9	+004.9	+004.9
30.6250	+004.7	+004.8	+004.8	+004.8	+004.7
31.2500	+004.9	+004.8	+004.8	+004.8	+004.8
31.8750	+004.8	+004.8	+005.0	+004.9	+005.0
32.5000	+005.0	+005.0	+005.1	+005.1	+005.2
33.1250	+005.3	+005.3	+005.3	+005.4	+005.4
33.7500	+005.4	+005.4	+005.4	+005.4	+005.4
34.3750	+005.4	+005.4	+005.4	+005.3	+005.3
35.0000	+005.2	+005.1	+005.1	+005.0	+004.9
35.6250	+004.8	+004.7	+004.5	+004.5	+004.4
36.2500	+004.2	+004.1	+003.9	+003.9	+003.6
36.8750	+003.6	+003.5	+003.4	+003.2	+003.0

RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C004	
37.5000	+002.9	+002.8	+002.7	+002.5	+002.4
38.1250	+002.2	+002.1	+002.1	+002.0	+001.9
38.7500	+001.9	+001.8	+001.8	+001.6	+001.6
39.3750	+001.6	+001.6	+001.6	+001.6	+001.6
40.0000	+001.7	+001.7	+001.7	+001.8	+001.8
40.6250	+001.8	+001.9	+001.9	+002.0	+002.1
41.2500	+002.1	+002.1	+002.1	+002.2	+002.2
41.8750	+002.2	+002.2	+002.3	+002.3	+002.3
42.5000	+002.3	+002.4	+002.4	+002.5	+002.5
43.1250	+002.5	+002.5	+002.5	+002.5	+002.5
43.7500	+002.5	+002.5	+002.5	+002.5	+002.5
44.3750	+002.5	+002.5	+002.5	+002.6	+002.7
45.0000	+002.7	+002.6	+002.7	+002.7	+002.7
45.6250	+002.8	+002.8	+002.8	+002.8	+002.8
46.2500	+002.8	+002.8	+002.8	+002.8	+002.8
46.8750	+003.0	+003.0	+003.0	+003.0	+003.0
47.5000	+003.1	+003.2	+003.2	+003.2	+003.2
48.1250	+003.2	+003.2	+003.2	+003.2	+003.2
48.7500	+003.2	+003.2	+003.2	+003.2	+003.2
49.3750	+003.2	+003.2	+003.2	+003.2	+002.9
50.0000	+003.0	+002.9	+002.8	+002.8	+002.8
50.6250	+002.6	+002.5	+002.5	+002.5	+002.5
51.2500	+002.4	+002.3	+002.2	+002.2	+002.2
51.8750	+002.2	+002.1	+002.1	+002.0	+002.0
52.5000	+001.9	+001.8	+001.8	+001.8	+001.8
53.1250	+001.8	+001.7	+001.7	+001.6	+001.6
53.7500	+001.6	+001.5	+001.6	+001.5	+001.6
54.3750	+001.5	+001.5	+001.5	+001.5	+001.5
55.0000	+001.5	+001.7	+001.7	+001.6	+001.6
55.6250	+001.6	+001.6	+001.6	+001.6	+001.6
56.2500	+001.7	+001.6	+001.7	+001.7	+001.8
56.8750	+001.8	+001.8	+001.8	+001.8	+001.8
57.5000	+001.8	+001.8	+001.8	+001.8	+001.8
58.1250	+001.8	+001.8	+001.8	+001.8	+001.8
58.7500	+001.8	+001.8	+001.8	+001.8	+001.8
59.3750	+001.8	+001.8	+001.8	+001.8	+313.4

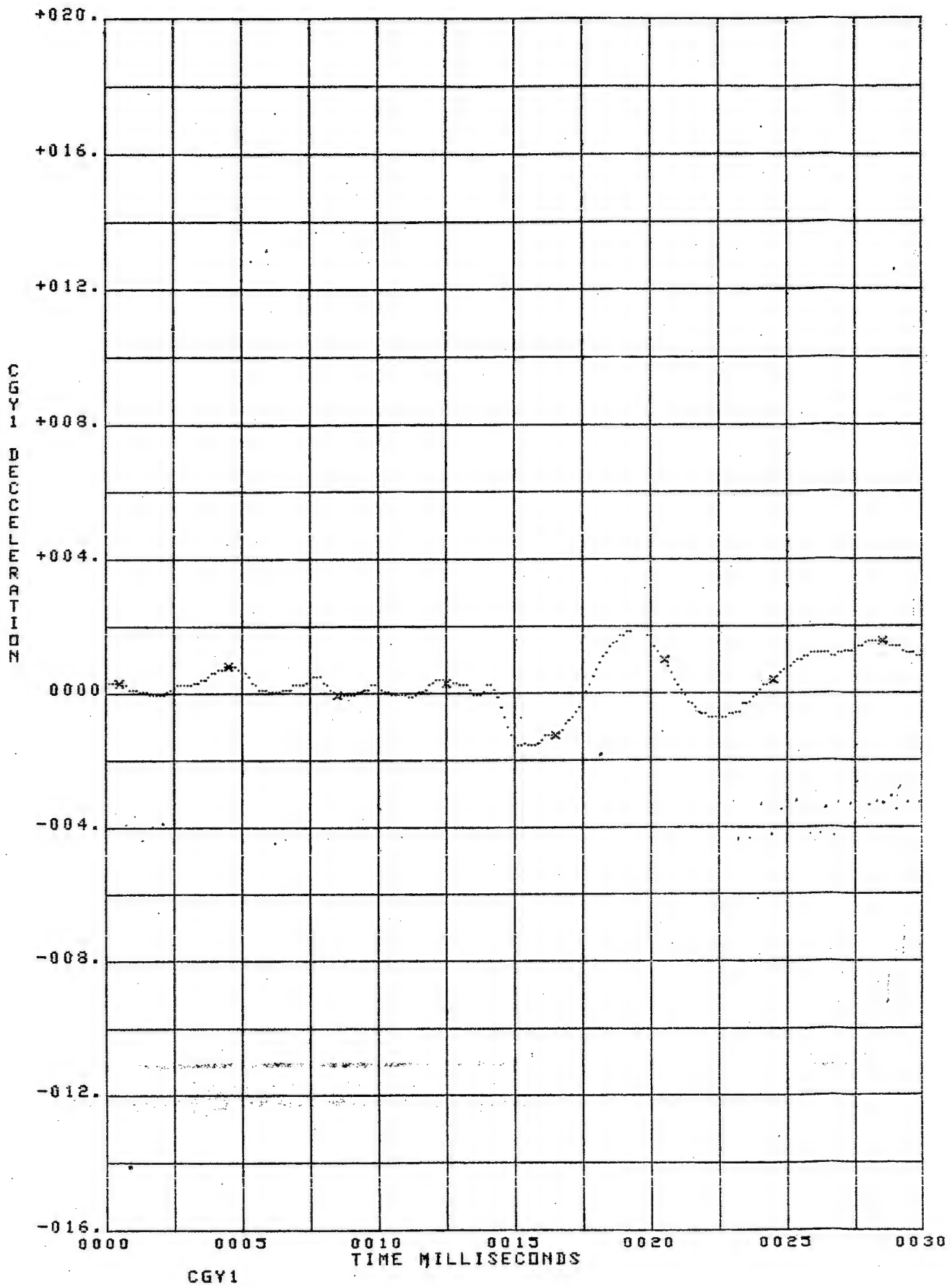
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AT T=009.7

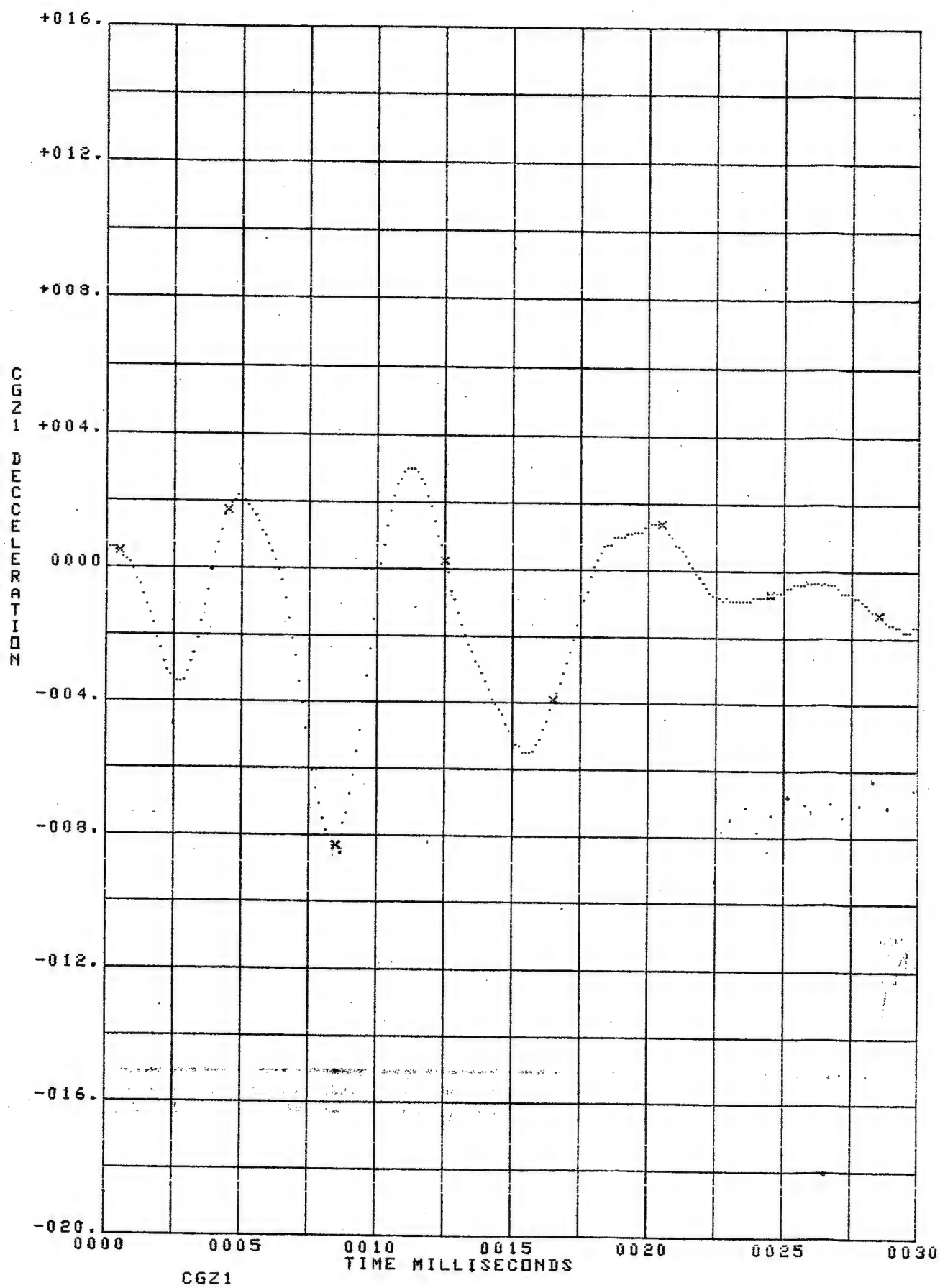
Chest Impact
Dummy No. 39, Run No. 1



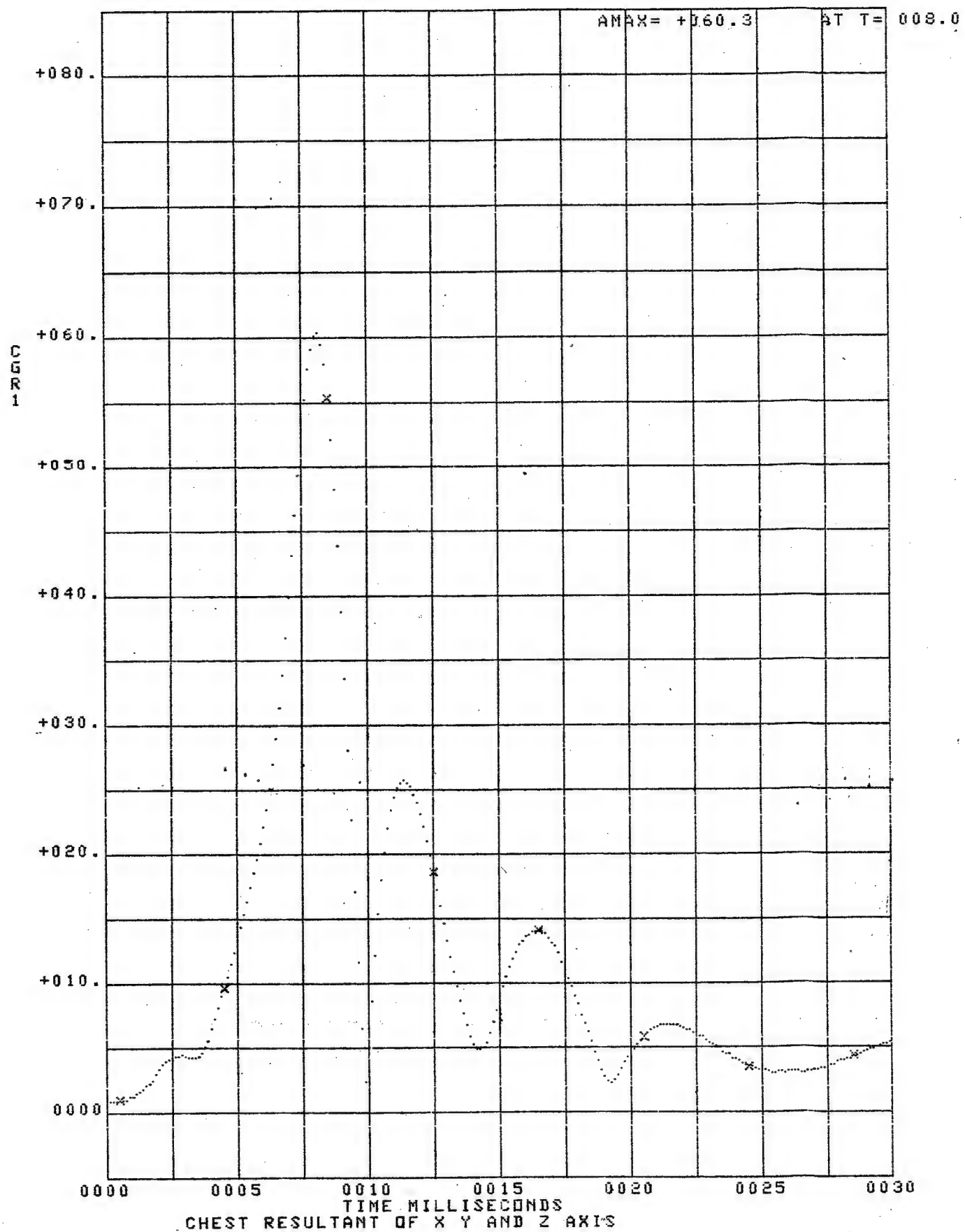
CHEST IMPACT
TEST C007



CHEST IMPACT
TEST C007



CHEST IMPACT
TEST C007



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C007

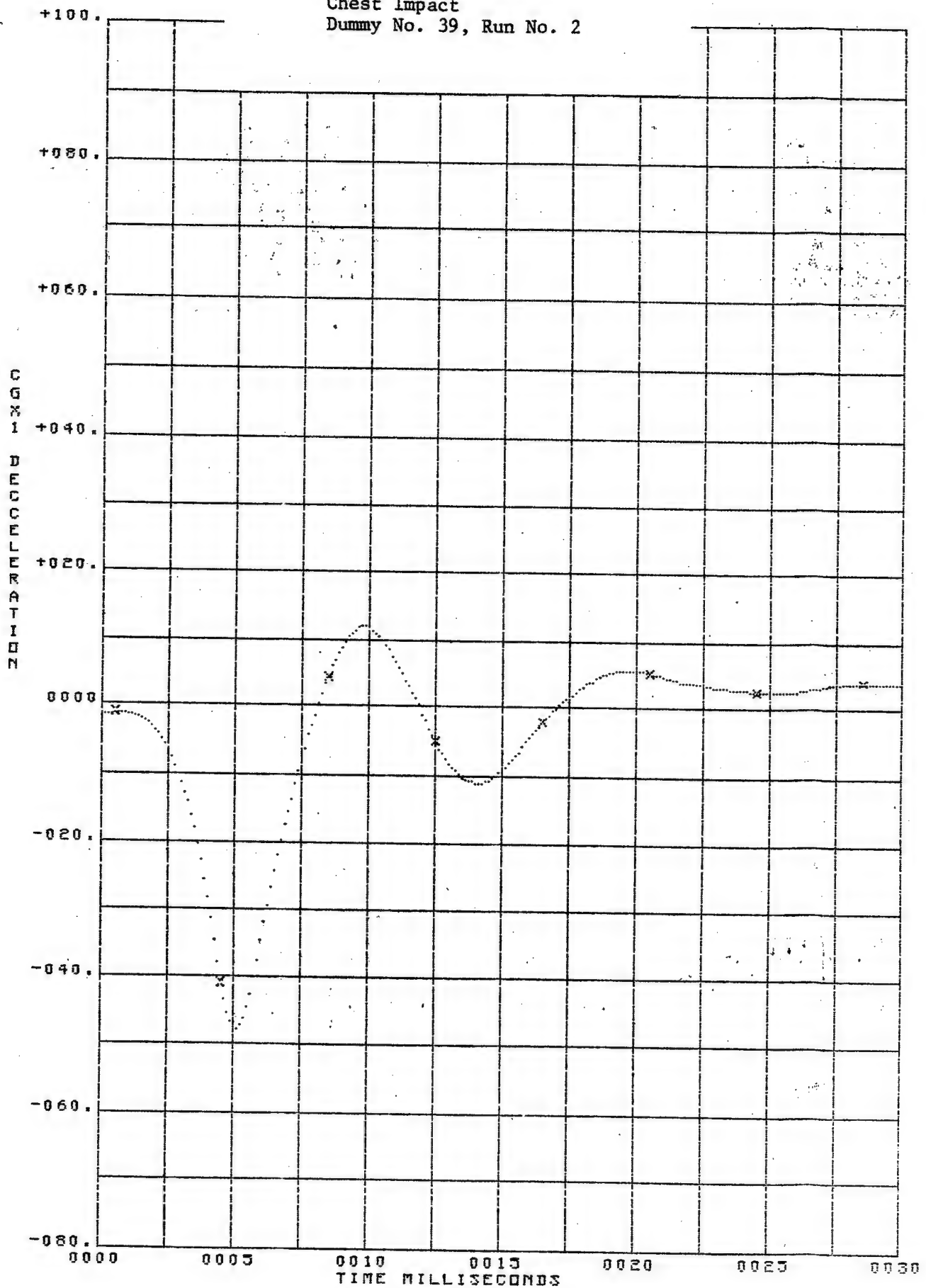
TIME					
0.0000	+000.3	+000.4	+000.3	+000.4	+000.4
0.6250	+000.6	+000.7	+000.8	+001.0	+001.2
1.2500	+001.4	+001.6	+001.8	+002.1	+002.5
1.8750	+002.8	+003.2	+003.5	+003.6	+003.9
2.5000	+003.9	+003.9	+004.0	+003.9	+003.8
3.1250	+003.8	+003.8	+003.9	+004.2	+004.6
3.7500	+005.2	+005.9	+006.8	+007.6	+008.4
4.3750	+009.1	+010.0	+010.9	+011.9	+012.9
5.0000	+013.8	+014.8	+015.9	+016.9	+018.0
5.6250	+019.1	+020.3	+021.6	+023.0	+024.6
6.2500	+026.5	+028.5	+030.9	+033.4	+036.4
6.8750	+039.6	+042.9	+046.1	+049.3	+052.5
7.5000	+055.2	+057.5	+059.1	+060.1	+060.3
8.1250	+059.5	+057.9	+055.4	+052.1	+048.1
8.7500	+043.6	+038.5	+033.2	+027.7	+022.1
9.3750	+016.6	+011.1	+006.0	+001.9	+004.1
10.0000	+008.2	+011.6	+014.9	+017.5	+019.6
10.6250	+021.4	+022.9	+023.9	+024.6	+025.0
11.2500	+025.2	+025.0	+024.7	+024.1	+023.4
11.8750	+022.6	+021.6	+020.5	+019.3	+018.0
12.5000	+016.7	+015.5	+014.1	+012.8	+011.5
13.1250	+010.3	+009.2	+008.2	+007.1	+006.2
13.7500	+005.4	+004.8	+004.4	+004.4	+004.5
14.3750	+004.9	+005.6	+006.5	+007.3	+008.3
15.0000	+009.3	+010.0	+010.8	+011.3	+011.9
15.6250	+012.4	+012.7	+013.1	+013.3	+013.5
16.2500	+013.5	+013.6	+013.5	+013.3	+013.0
16.8750	+012.7	+012.3	+011.8	+011.1	+010.6
17.5000	+009.9	+009.3	+008.5	+007.9	+007.1
18.1250	+006.4	+005.7	+005.0	+004.1	+003.5
18.7500	+002.8	+002.2	+001.9	+001.8	+002.0
19.3750	+002.4	+002.8	+003.3	+003.7	+004.1
20.0000	+004.4	+004.7	+005.0	+005.4	+005.6
20.6250	+005.8	+006.0	+006.1	+006.2	+006.2
21.2500	+006.3	+006.3	+006.3	+006.2	+006.1
21.8750	+006.0	+005.9	+005.8	+005.6	+005.6
22.5000	+005.4	+005.3	+005.1	+004.9	+004.7
23.1250	+004.6	+004.5	+004.2	+004.0	+004.0
23.7500	+003.7	+003.6	+003.5	+003.2	+003.2
24.3750	+003.0	+003.0	+002.9	+002.8	+002.7
25.0000	+002.7	+002.6	+002.5	+002.5	+002.6
25.6250	+002.6	+002.5	+002.6	+002.6	+002.6
26.2500	+002.6	+002.5	+002.5	+002.6	+002.6
26.8750	+002.7	+002.8	+002.9	+002.9	+002.9
27.5000	+003.2	+003.2	+003.3	+003.4	+003.5
28.1250	+003.6	+003.6	+003.9	+003.9	+004.0
28.7500	+004.2	+004.3	+004.4	+004.4	+004.6
29.3750	+004.6	+004.7	+004.8	+004.8	+004.9
30.0000	+005.0	+005.0	+005.0	+005.0	+005.1
30.6250	+005.2	+005.1	+005.2	+005.1	+005.1
31.2500	+005.2	+005.2	+005.2	+005.1	+005.1
31.8750	+005.1	+005.1	+005.1	+005.0	+004.9
32.5000	+004.9	+004.8	+004.7	+004.6	+004.6
33.1250	+004.5	+004.4	+004.3	+004.3	+004.1
33.7500	+004.0	+004.0	+003.9	+003.8	+003.8
34.3750	+003.8	+003.6	+003.6	+003.6	+003.5
35.0000	+003.5	+003.5	+003.5	+003.5	+003.3
35.6250	+003.3	+003.3	+003.3	+003.3	+003.3
36.2500	+003.3	+003.3	+003.3	+003.3	+003.2
36.8750	+003.2	+003.2	+003.2	+003.2	+003.2

RESULTANT (CGR1) DF	CGX1	CGY1	CGZ1	C007		
37.5000	+003.0	+003.0	+003.1	+003.0	+003.2	
38.1250	+003.0	+003.0	+003.0	+003.0	+003.0	
38.7500	+003.0	+003.0	+003.0	+003.0	+003.0	
39.3750	+003.0	+002.8	+002.9	+002.9	+002.8	
40.0000	+002.9	+002.9	+002.8	+002.8	+002.6	
40.6250	+002.6	+002.6	+002.6	+002.6	+002.5	
41.2500	+002.4	+002.4	+002.3	+002.3	+002.3	
41.8750	+002.2	+002.2	+002.3	+002.2	+002.2	
42.5000	+002.1	+002.1	+002.1	+002.1	+002.1	
43.1250	+002.1	+002.1	+002.1	+002.1	+002.1	
43.7500	+002.1	+002.1	+002.1	+002.1	+002.1	
44.3750	+002.0	+002.0	+002.1	+002.1	+002.1	
45.0000	+002.2	+002.2	+002.2	+002.2	+002.3	
45.6250	+002.3	+002.4	+002.4	+002.5	+002.5	
46.2500	+002.6	+002.6	+002.6	+002.6	+002.7	
46.8750	+002.7	+002.7	+002.7	+002.7	+002.7	
47.5000	+002.8	+002.7	+002.8	+002.7	+002.8	
48.1250	+002.8	+002.8	+002.8	+002.7	+002.7	
48.7500	+002.7	+002.7	+002.7	+002.7	+002.7	
49.3750	+002.6	+002.6	+002.5	+002.6	+002.5	
50.0000	+002.5	+002.4	+002.4	+002.4	+002.3	
50.6250	+002.4	+002.4	+002.3	+002.3	+002.2	
51.2500	+002.2	+002.2	+002.2	+002.2	+002.2	
51.8750	+002.2	+002.2	+002.2	+002.1	+002.2	
52.5000	+002.1	+002.1	+002.2	+002.2	+002.3	
53.1250	+002.2	+002.3	+002.3	+002.3	+002.3	
53.7500	+002.3	+002.3	+002.3	+002.3	+002.3	
54.3750	+002.3	+002.3	+002.3	+002.2	+002.4	
55.0000	+002.3	+002.4	+002.4	+002.4	+002.4	
55.6250	+002.4	+002.4	+002.4	+002.5	+002.5	
56.2500	+002.5	+002.5	+002.5	+002.5	+002.5	
56.8750	+002.5	+002.5	+002.5	+002.4	+002.4	
57.5000	+002.4	+002.4	+002.4	+002.4	+002.3	
58.1250	+002.3	+002.3	+002.2	+002.2	+002.2	
58.7500	+002.1	+002.2	+002.2	+002.2	+002.1	
59.3750	+002.1	+002.1	+002.1	+002.1	+313.4	

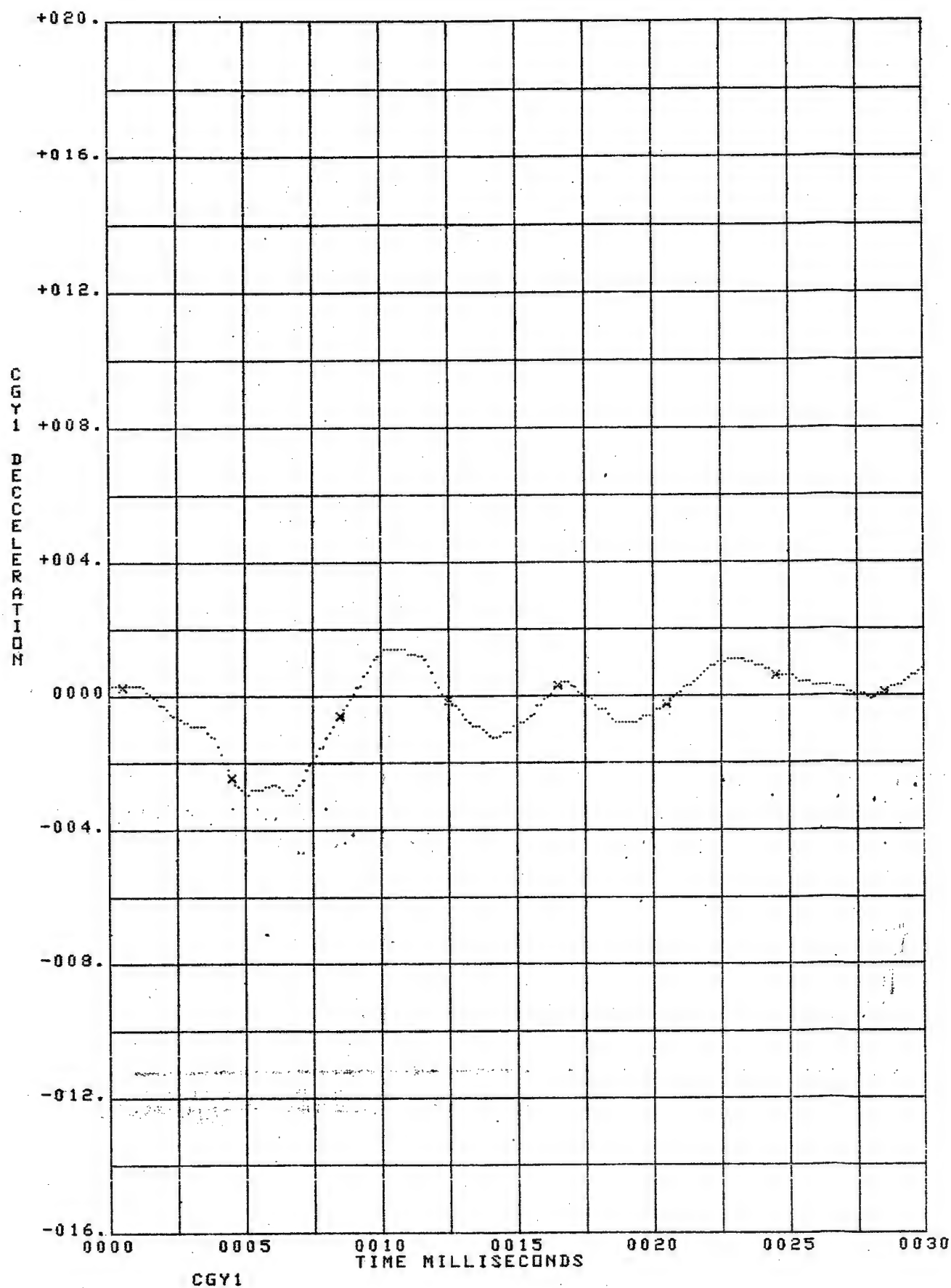
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AT T=008.0

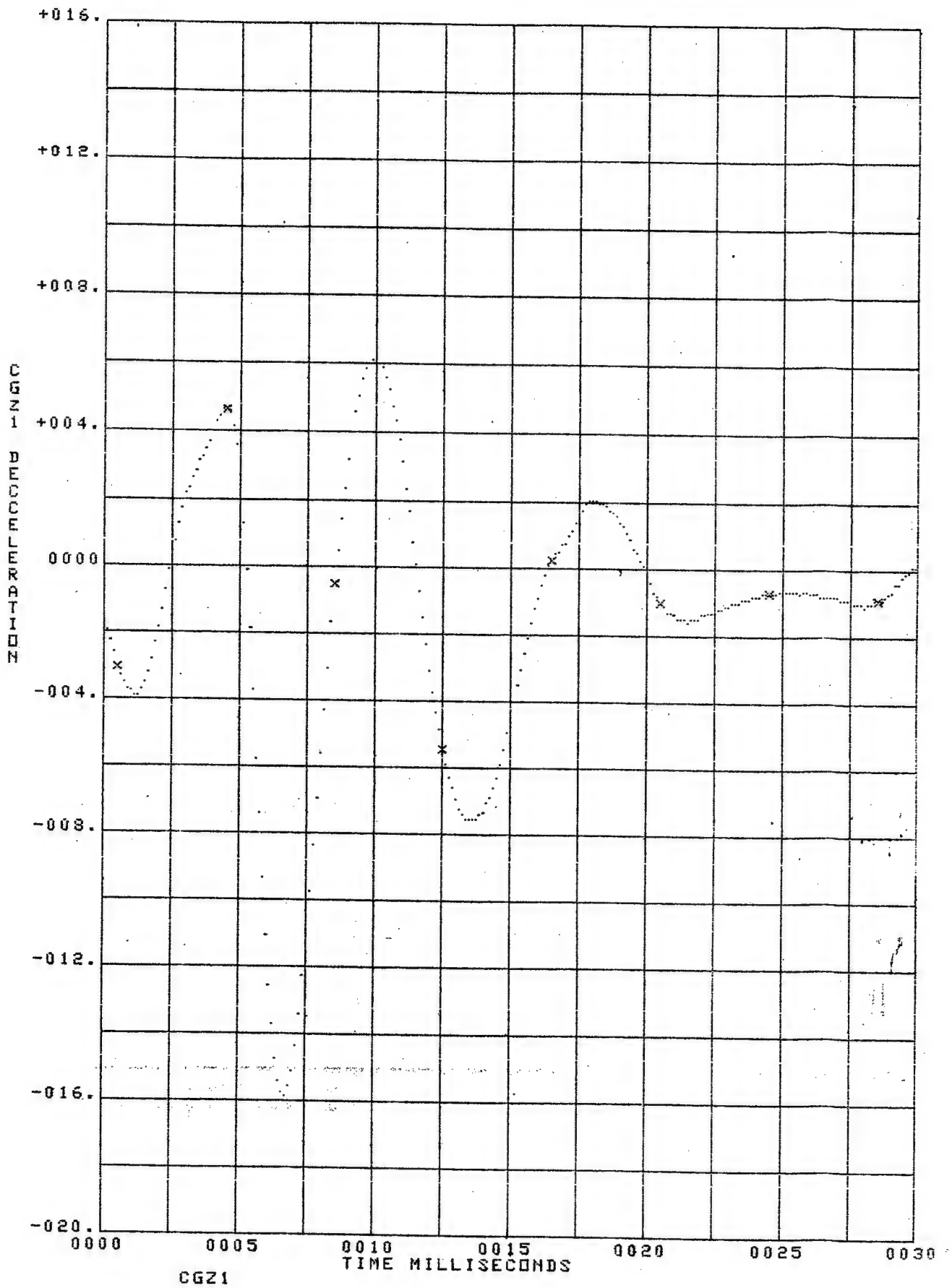
Chest Impact
Dummy No. 39, Run No. 2



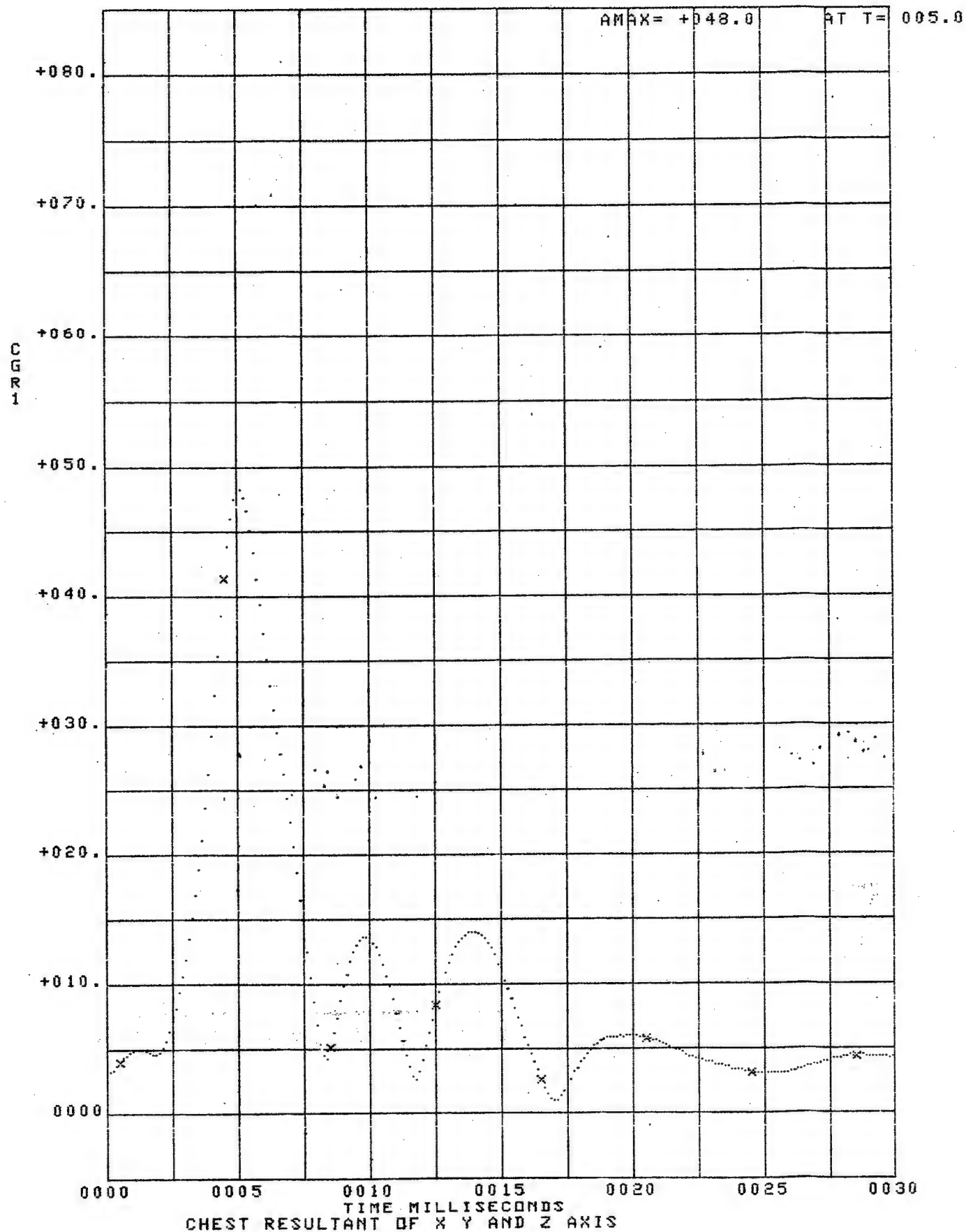
CHEST IMPACT
TEST C008



CHEST IMPACT
TEST C008



CHEST IMPACT
TEST C008



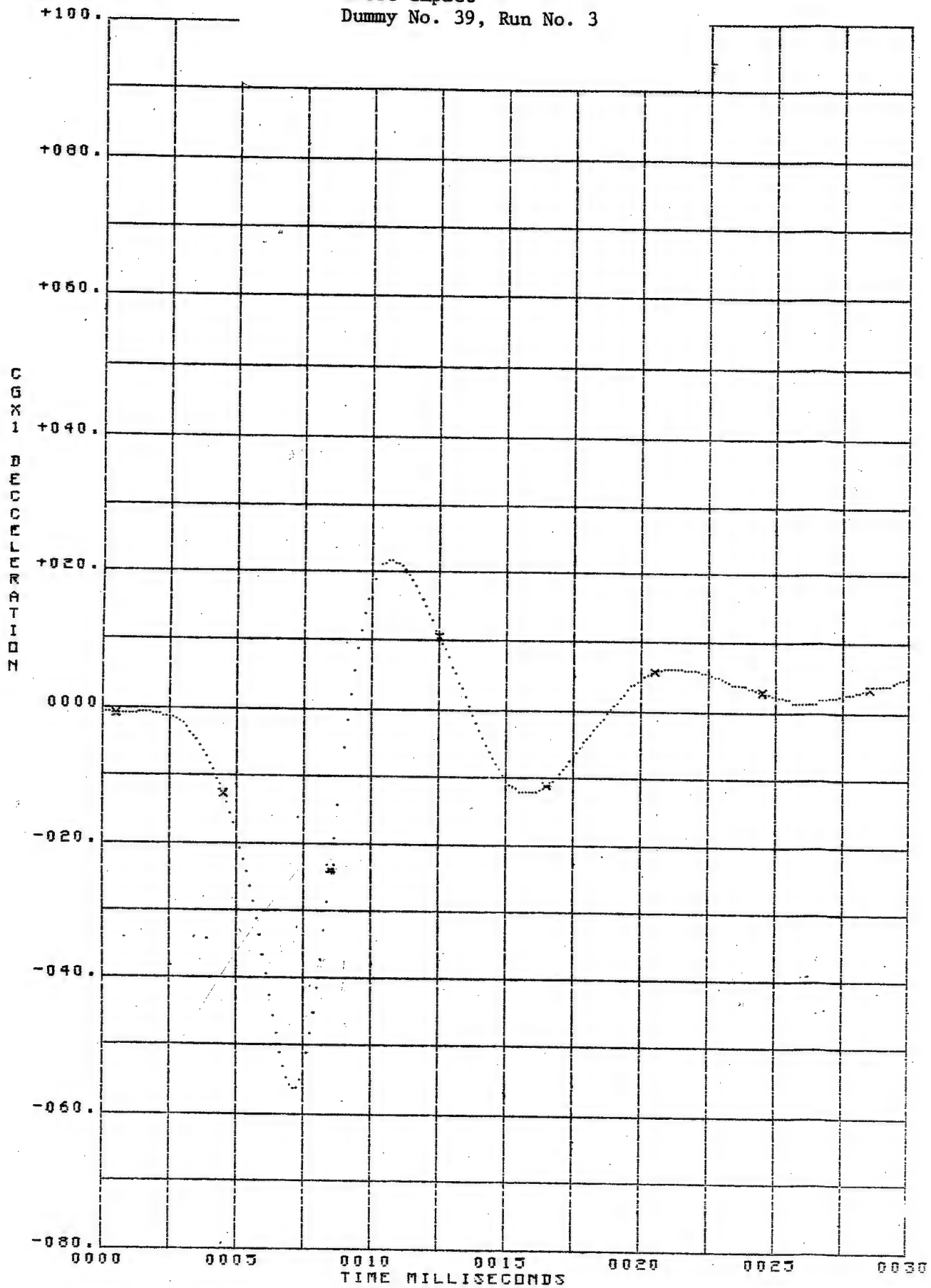
RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C008

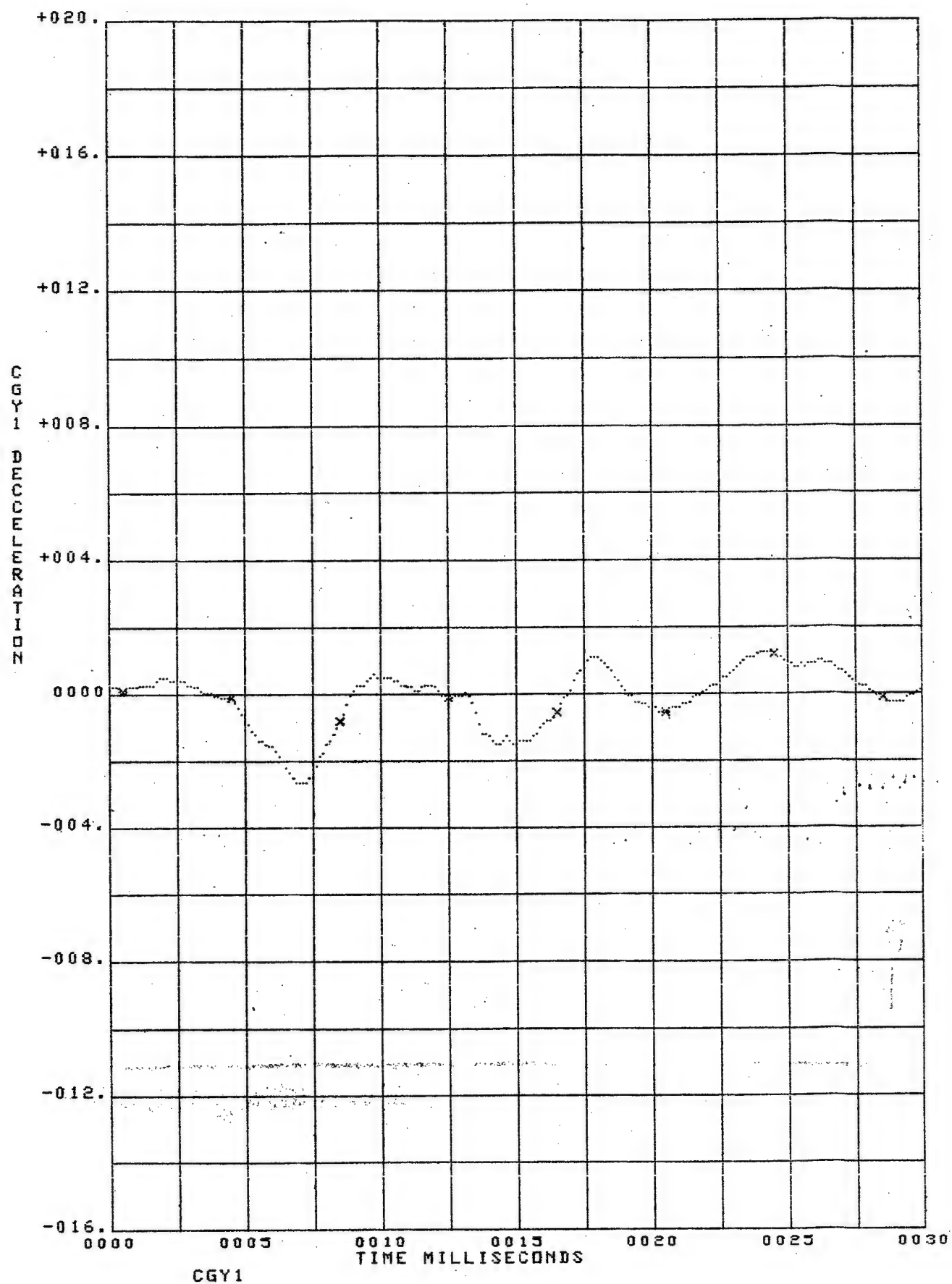
TIME					
0.0000	+002.7	+002.9	+003.2	+003.6	+003.9
0.6250	+004.1	+004.3	+004.4	+004.5	+004.6
1.2500	+004.5	+004.4	+004.3	+004.2	+004.1
1.8750	+004.3	+004.6	+005.2	+005.8	+006.7
2.5000	+007.7	+008.8	+010.1	+011.5	+013.0
3.1250	+014.5	+016.3	+018.3	+020.5	+023.1
3.7500	+025.7	+028.7	+031.9	+035.0	+038.2
4.3750	+041.1	+043.6	+045.8	+047.3	+048.0
5.0000	+048.0	+047.5	+046.5	+044.9	+043.1
5.6250	+041.1	+039.0	+036.8	+034.7	+032.7
6.2500	+030.2	+029.1	+027.3	+025.6	+023.8
6.8750	+021.9	+020.0	+018.1	+016.0	+014.0
7.5000	+012.0	+010.0	+008.1	+006.4	+004.9
8.1250	+004.0	+003.7	+004.6	+005.8	+006.9
8.7500	+008.2	+009.4	+010.3	+011.2	+011.9
9.3750	+012.5	+012.9	+013.1	+013.1	+013.0
10.0000	+012.6	+012.3	+011.7	+011.0	+010.1
10.6250	+009.3	+008.3	+007.3	+006.1	+005.2
11.2500	+004.0	+003.1	+002.4	+002.2	+002.8
11.8750	+003.6	+004.7	+005.8	+006.8	+007.9
12.5000	+008.9	+009.5	+010.3	+011.1	+011.7
13.1250	+012.3	+012.7	+013.0	+013.3	+013.5
13.7500	+013.5	+013.5	+013.4	+013.3	+013.0
14.3750	+012.6	+012.2	+011.7	+011.0	+010.4
15.0000	+009.7	+009.1	+008.4	+007.7	+006.9
15.6250	+006.2	+005.4	+004.8	+004.1	+003.5
16.2500	+002.8	+002.1	+001.5	+001.1	+000.7
16.8750	+000.5	+000.6	+000.9	+001.3	+001.8
17.5000	+002.2	+002.7	+003.0	+003.5	+003.7
18.1250	+004.1	+004.3	+004.7	+004.9	+005.1
18.7500	+005.2	+005.4	+005.4	+005.4	+005.4
19.3750	+005.4	+005.4	+005.5	+005.5	+005.4
20.0000	+005.5	+005.4	+005.4	+005.3	+005.2
20.6250	+005.2	+005.1	+005.0	+004.8	+004.8
21.2500	+004.6	+004.6	+004.4	+004.3	+004.3
21.8750	+004.0	+003.9	+003.9	+003.8	+003.7
22.5000	+003.6	+003.5	+003.5	+003.5	+003.2
23.1250	+003.2	+003.2	+003.1	+003.1	+002.9
23.7500	+002.9	+002.9	+002.8	+002.8	+002.7
24.3750	+002.6	+002.6	+002.6	+002.6	+002.6
25.0000	+002.6	+002.6	+002.6	+002.6	+002.6
25.6250	+002.7	+002.7	+002.7	+002.7	+002.8
26.2500	+002.9	+003.0	+003.1	+003.1	+003.2
26.8750	+003.2	+003.4	+003.5	+003.5	+003.6
27.5000	+003.7	+003.8	+003.8	+003.9	+003.9
28.1250	+004.0	+003.9	+003.9	+004.0	+004.0
28.7500	+003.9	+003.9	+003.9	+003.9	+003.9
29.3750	+003.9	+003.9	+003.8	+003.9	+003.8
30.0000	+003.9	+003.9	+003.9	+003.8	+003.8
30.6250	+003.8	+003.8	+003.8	+003.8	+003.8
31.2500	+003.6	+003.6	+003.6	+003.5	+003.5
31.8750	+003.5	+003.5	+003.3	+003.3	+003.3
32.5000	+003.3	+003.3	+003.3	+003.3	+003.3
33.1250	+003.2	+003.3	+003.3	+003.2	+003.2
33.7500	+003.2	+003.2	+003.2	+003.2	+003.2
34.3750	+003.2	+003.2	+003.2	+003.2	+003.2
35.0000	+003.0	+003.0	+003.0	+003.0	+003.0
35.6250	+003.0	+003.0	+003.0	+003.0	+003.0
36.2500	+002.8	+002.8	+002.8	+002.8	+002.8
36.8750	+002.8	+002.8	+002.8	+002.7	+002.7

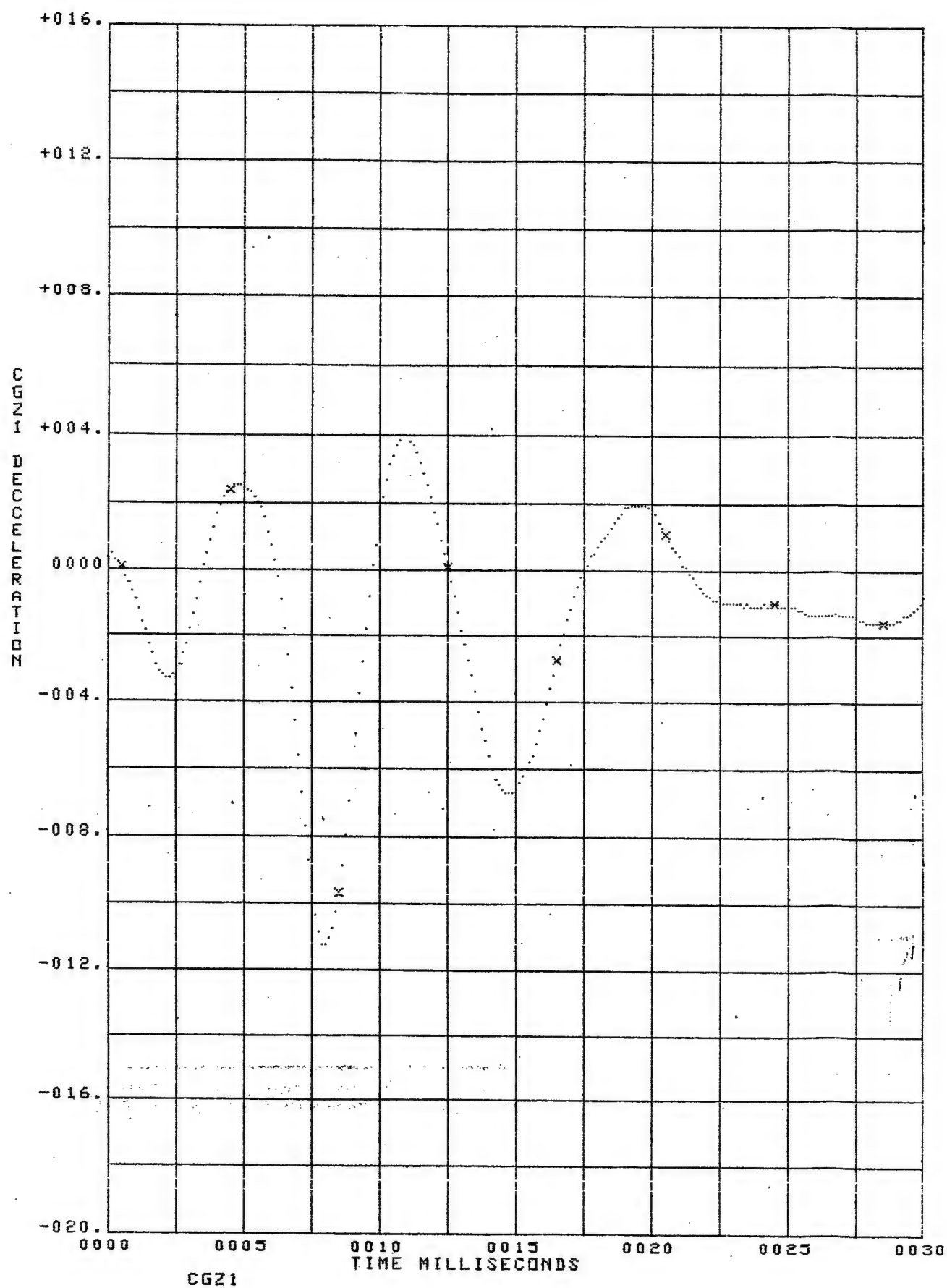
RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C008		
37.5000	+002.7	+002.5	+002.5	+002.5	+002.5	+002.5
38.1250	+002.5	+002.4	+002.4	+002.4	+002.3	+002.3
38.7500	+002.2	+002.1	+002.1	+002.1	+002.1	+002.1
39.3750	+002.1	+001.9	+002.1	+002.1	+001.9	+002.0
40.0000	+001.9	+001.9	+001.8	+001.8	+001.8	+001.8
40.6250	+001.8	+001.8	+001.8	+001.8	+001.7	+001.7
41.2500	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
41.8750	+001.7	+001.8	+001.7	+001.7	+001.8	+001.8
42.5000	+001.8	+001.8	+002.0	+002.0	+002.0	+002.0
43.1250	+002.0	+002.0	+002.0	+002.0	+002.1	+002.1
43.7500	+002.1	+002.2	+002.2	+002.2	+002.2	+002.2
44.3750	+002.3	+002.3	+002.3	+002.3	+002.3	+002.3
45.0000	+002.4	+002.4	+002.4	+002.4	+002.4	+002.4
45.6250	+002.4	+002.4	+002.5	+002.5	+002.5	+002.5
46.2500	+002.5	+002.5	+002.5	+002.5	+002.5	+002.5
46.8750	+002.5	+002.5	+002.5	+002.5	+002.5	+002.4
47.5000	+002.4	+002.3	+002.3	+002.3	+002.3	+002.2
48.1250	+002.2	+002.1	+002.1	+002.1	+002.1	+002.0
48.7500	+002.0	+002.0	+002.0	+002.0	+001.9	+001.9
49.3750	+001.9	+001.8	+001.8	+001.8	+001.8	+001.8
50.0000	+001.9	+001.9	+001.9	+001.9	+001.9	+001.9
50.6250	+001.9	+001.9	+001.9	+001.9	+001.9	+001.9
51.2500	+001.8	+001.8	+001.7	+001.7	+001.7	+001.7
51.8750	+001.7	+001.7	+001.6	+001.6	+001.6	+001.7
52.5000	+001.6	+001.6	+001.6	+001.6	+001.6	+001.7
53.1250	+001.7	+001.6	+001.7	+001.7	+001.7	+001.7
53.7500	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
54.3750	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
55.0000	+001.7	+001.8	+001.8	+001.8	+001.8	+001.8
55.6250	+001.8	+001.8	+001.8	+001.8	+001.8	+001.7
56.2500	+001.7	+001.8	+001.8	+001.8	+001.7	+001.7
56.8750	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
57.5000	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
58.1250	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
58.7500	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
59.3750	+001.7	+001.7	+001.7	+001.5	+001.5	+313.4

AMAX= +048.0 AT T=005.0

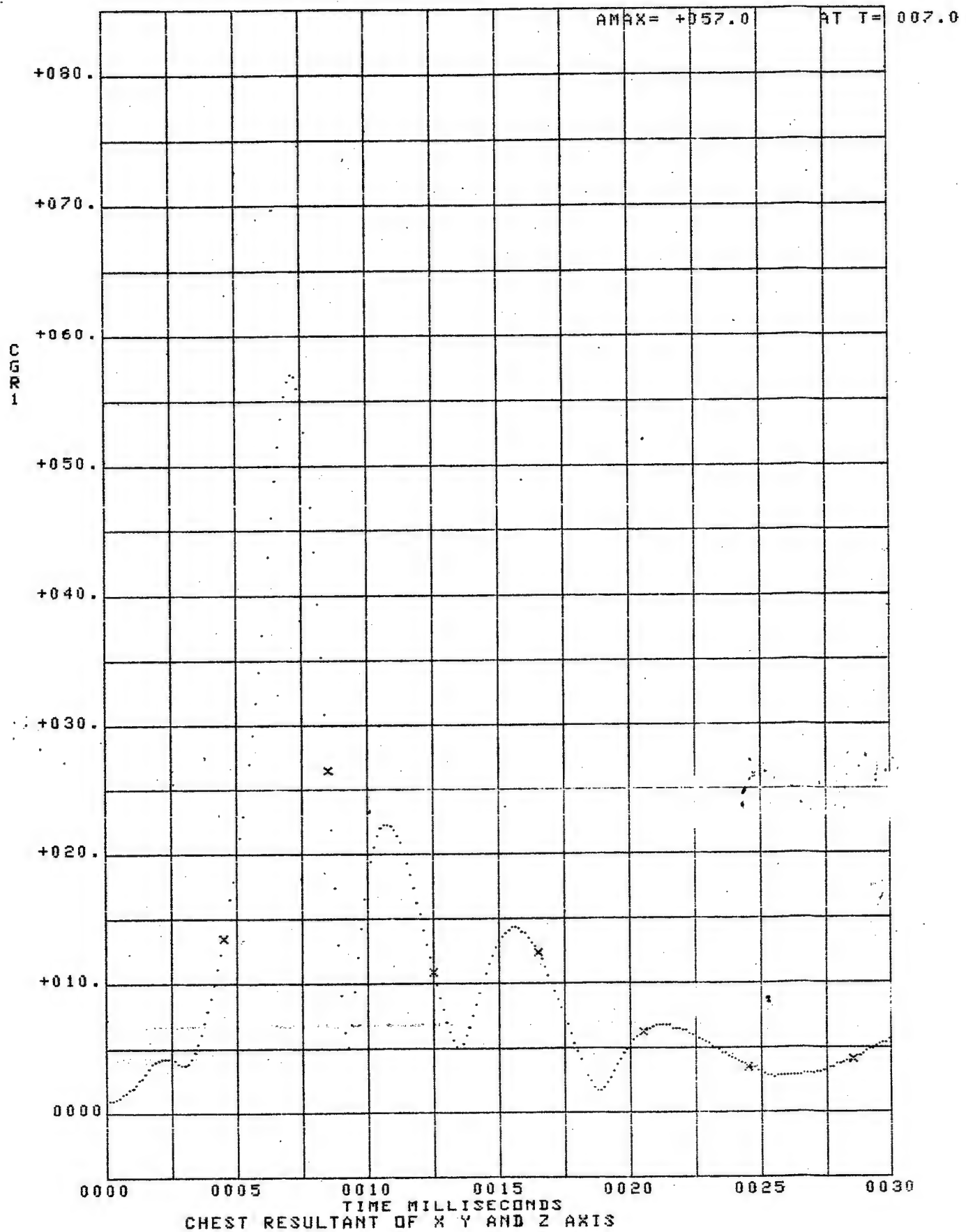
Chest Impact
Dummy No. 39, Run No. 3







CHEST IMPACT
TEST C009



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 08C009

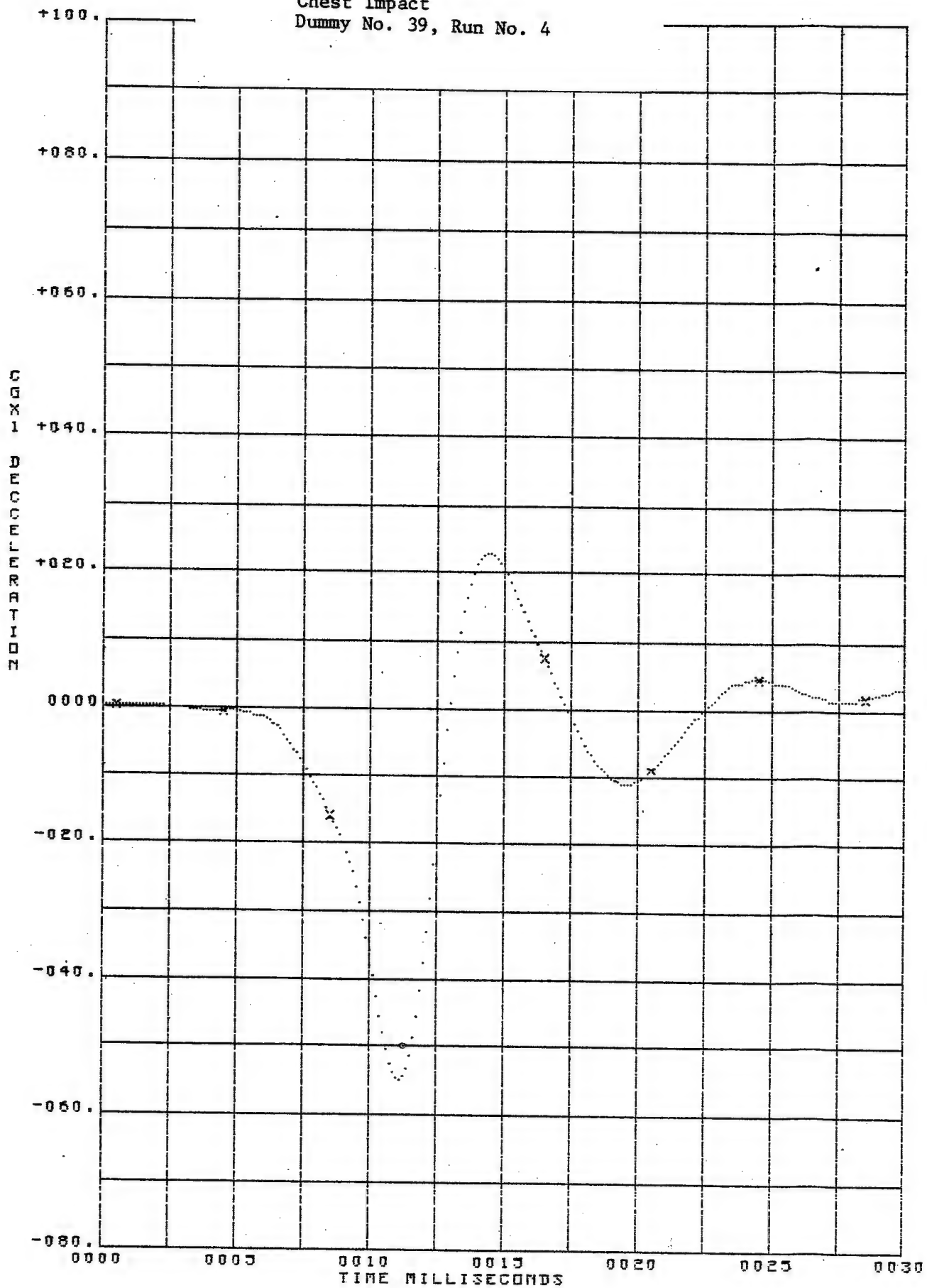
TIME					
0.0000	+000.4	+000.6	+000.7	+000.8	+001.1
0.6250	+001.2	+001.4	+001.5	+001.7	+002.1
1.2500	+002.3	+002.7	+003.0	+003.4	+003.6
1.8750	+003.7	+003.8	+003.8	+003.8	+003.7
2.5000	+003.6	+003.4	+003.3	+003.2	+003.4
3.1250	+003.7	+004.3	+004.8	+005.6	+006.5
3.7500	+007.4	+008.3	+009.4	+010.6	+011.8
4.3750	+013.0	+014.4	+015.9	+017.4	+019.0
5.0000	+020.7	+022.5	+024.5	+026.5	+028.7
5.6250	+031.3	+033.7	+036.6	+039.6	+042.7
6.2500	+045.8	+048.7	+051.4	+053.6	+055.4
6.8750	+056.4	+057.0	+056.8	+056.0	+054.6
7.5000	+052.5	+049.9	+046.6	+043.1	+039.1
8.1250	+034.8	+030.4	+025.9	+021.3	+016.8
8.7500	+012.5	+008.6	+005.7	+004.6	+006.3
9.3750	+008.9	+011.5	+013.7	+015.9	+017.6
10.0000	+018.9	+020.0	+020.8	+021.4	+021.7
10.6250	+021.7	+021.6	+021.3	+020.8	+020.3
11.2500	+019.5	+018.7	+017.8	+016.8	+015.8
11.8750	+014.8	+013.6	+012.5	+011.4	+010.3
12.5000	+009.4	+008.4	+007.5	+006.6	+005.7
13.1250	+005.1	+004.6	+004.5	+004.3	+005.4
13.7500	+006.1	+007.0	+007.9	+008.8	+009.5
14.3750	+010.2	+010.9	+011.6	+012.2	+012.7
15.0000	+013.2	+013.4	+013.6	+013.8	+013.9
15.6250	+013.7	+013.5	+013.3	+013.0	+012.7
16.2500	+012.3	+011.8	+011.3	+010.8	+010.1
16.8750	+009.5	+008.8	+008.3	+007.6	+007.0
17.5000	+006.3	+005.6	+004.9	+004.3	+003.6
18.1250	+003.1	+002.4	+002.0	+001.5	+001.3
18.7500	+001.3	+001.6	+001.8	+002.3	+002.7
19.3750	+003.2	+003.6	+004.1	+004.4	+004.7
20.0000	+005.1	+005.4	+005.5	+005.7	+005.8
20.6250	+006.0	+006.1	+006.2	+006.2	+006.2
21.2500	+006.2	+006.2	+006.0	+006.0	+006.0
21.8750	+005.8	+005.8	+005.6	+005.5	+005.3
22.5000	+005.3	+005.1	+005.0	+004.8	+004.6
23.1250	+004.5	+004.3	+004.1	+004.2	+003.9
23.7500	+003.8	+003.7	+003.5	+003.4	+003.2
24.3750	+003.0	+003.0	+002.9	+002.8	+002.7
25.0000	+002.5	+002.4	+002.4	+002.3	+002.3
25.6250	+002.4	+002.3	+002.3	+002.4	+002.4
26.2500	+002.4	+002.4	+002.5	+002.5	+002.5
26.8750	+002.5	+002.6	+002.6	+002.7	+002.8
27.5000	+002.9	+003.0	+003.2	+003.2	+003.3
28.1250	+003.4	+003.6	+003.6	+003.9	+003.9
28.7500	+004.0	+004.2	+004.3	+004.4	+004.6
29.3750	+004.7	+004.8	+004.9	+005.1	+005.1
30.0000	+005.3	+005.4	+005.5	+005.6	+005.7
30.6250	+005.7	+005.8	+005.8	+005.8	+005.8
31.2500	+005.8	+005.7	+005.7	+005.6	+005.5
31.8750	+005.4	+005.3	+005.2	+005.1	+004.9
32.5000	+004.8	+004.7	+004.6	+004.4	+004.3
33.1250	+004.1	+004.0	+003.9	+003.8	+003.8
33.7500	+003.6	+003.5	+003.5	+003.3	+003.3
34.3750	+003.2	+003.2	+003.0	+003.0	+002.8
35.0000	+002.8	+002.8	+002.8	+002.8	+002.8
35.6250	+002.8	+002.7	+002.7	+002.7	+002.7
36.2500	+002.5	+002.5	+002.5	+002.5	+002.5
36.8750	+002.5	+002.5	+002.5	+002.4	+002.4

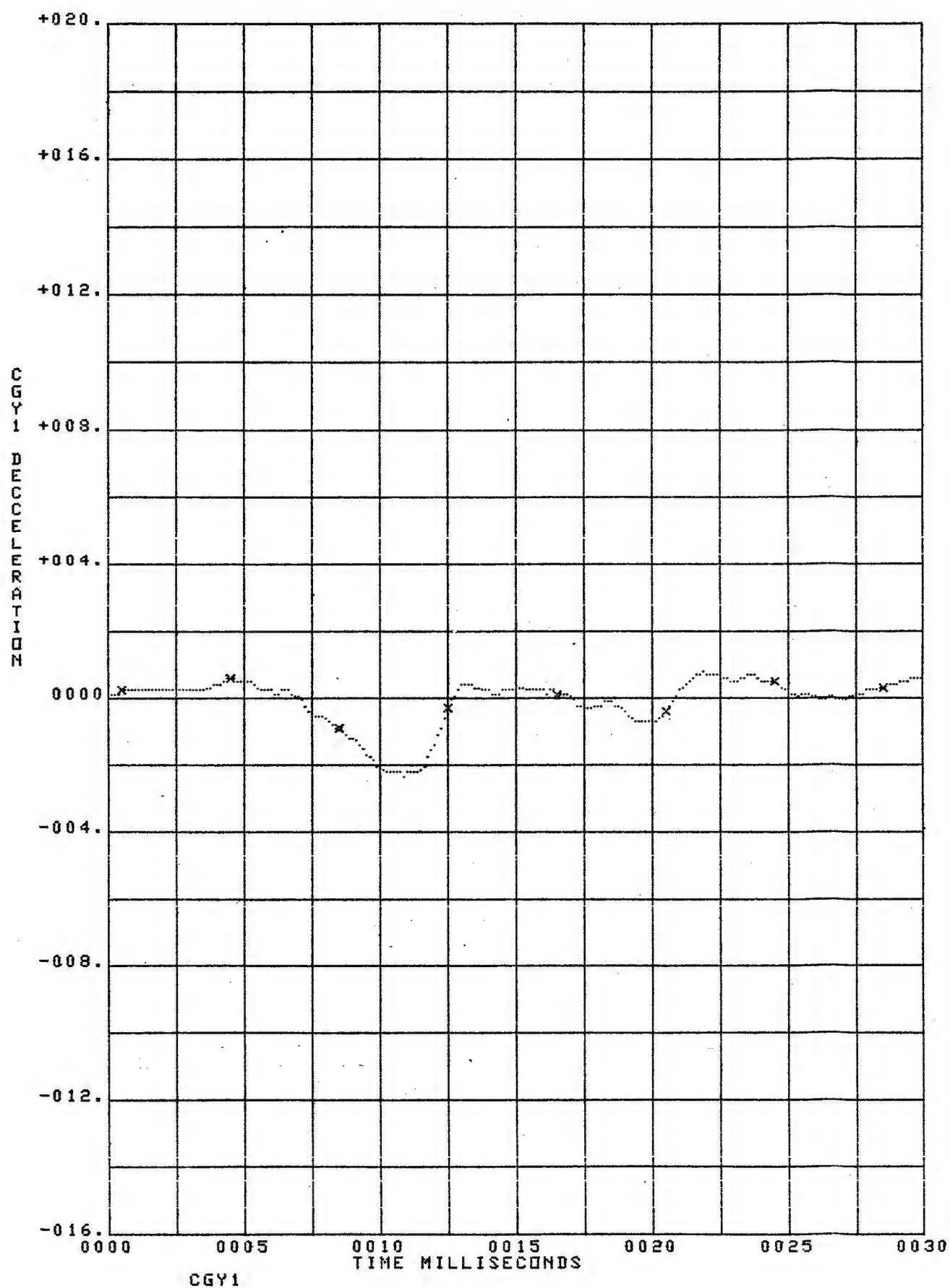
RESULTANT (CGR1) DF	CGX1	CGY1	CGZ1	08C009	
37.5000	+002.4	+002.4	+002.4	+002.4	+002.4
38.1250	+002.3	+002.3	+002.1	+002.1	+002.1
38.7500	+002.1	+002.1	+002.1	+002.1	+002.1
39.3750	+002.0	+002.0	+002.0	+002.0	+002.0
40.0000	+001.9	+001.9	+001.9	+001.8	+001.9
40.6250	+001.8	+001.8	+001.8	+001.8	+001.8
41.2500	+001.8	+001.7	+001.7	+001.7	+001.7
41.8750	+001.7	+001.7	+001.7	+001.7	+001.7
42.5000	+001.7	+001.7	+001.7	+001.7	+001.7
43.1250	+001.7	+001.7	+001.7	+001.6	+001.6
43.7500	+001.6	+001.7	+001.7	+001.7	+001.6
44.3750	+001.6	+001.6	+001.6	+001.6	+001.6
45.0000	+001.6	+001.6	+001.7	+001.7	+001.7
45.6250	+001.7	+001.7	+001.8	+001.8	+001.8
46.2500	+001.8	+001.9	+002.0	+002.0	+002.0
46.8750	+002.0	+002.0	+002.1	+002.1	+002.1
47.5000	+002.1	+002.1	+002.2	+002.2	+002.2
48.1250	+002.2	+002.3	+002.4	+002.4	+002.4
48.7500	+002.4	+002.4	+002.4	+002.4	+002.4
49.3750	+002.4	+002.5	+002.5	+002.5	+002.4
50.0000	+002.4	+002.4	+002.4	+002.4	+002.4
50.6250	+002.3	+002.3	+002.3	+002.3	+002.3
51.2500	+002.2	+002.2	+002.2	+002.2	+002.2
51.8750	+002.2	+002.3	+002.2	+002.2	+002.1
52.5000	+002.1	+002.1	+002.2	+002.2	+002.2
53.1250	+002.2	+002.2	+002.2	+002.0	+002.1
53.7500	+002.1	+002.1	+002.0	+002.0	+001.9
54.3750	+001.9	+001.9	+001.9	+001.9	+001.8
55.0000	+001.8	+001.8	+001.7	+001.7	+001.7
55.6250	+001.7	+001.7	+001.7	+001.7	+001.7
56.2500	+001.7	+001.7	+001.7	+001.7	+001.7
56.8750	+001.6	+001.6	+001.7	+001.7	+001.6
57.5000	+001.7	+001.7	+001.7	+001.7	+001.7
58.1250	+001.7	+001.7	+001.7	+001.7	+001.7
58.7500	+001.7	+001.7	+001.6	+001.6	+001.6
59.3750	+001.6	+001.6	+001.6	+001.6	+313.4

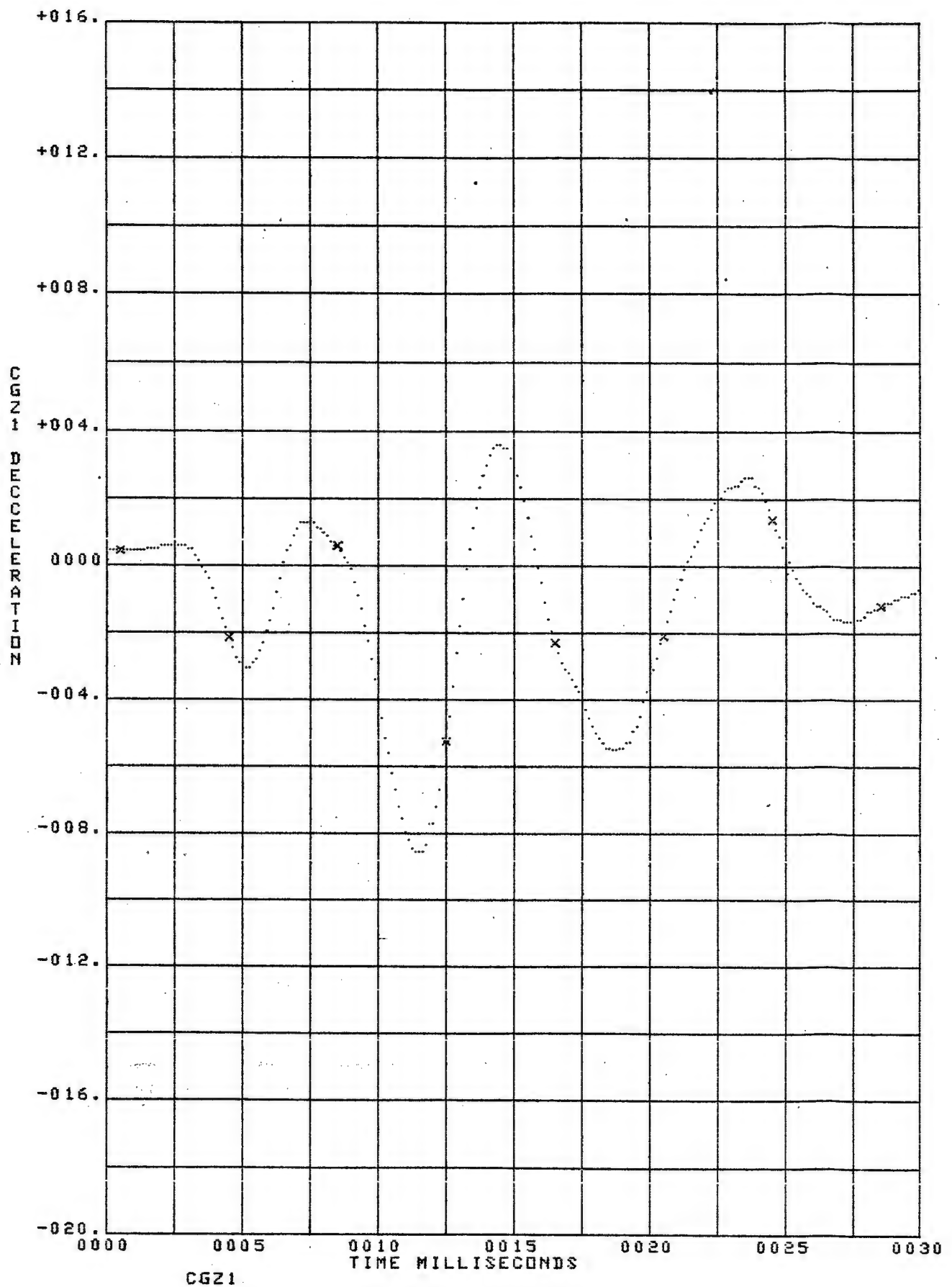
ANAX= +057.0

AT T=007.0

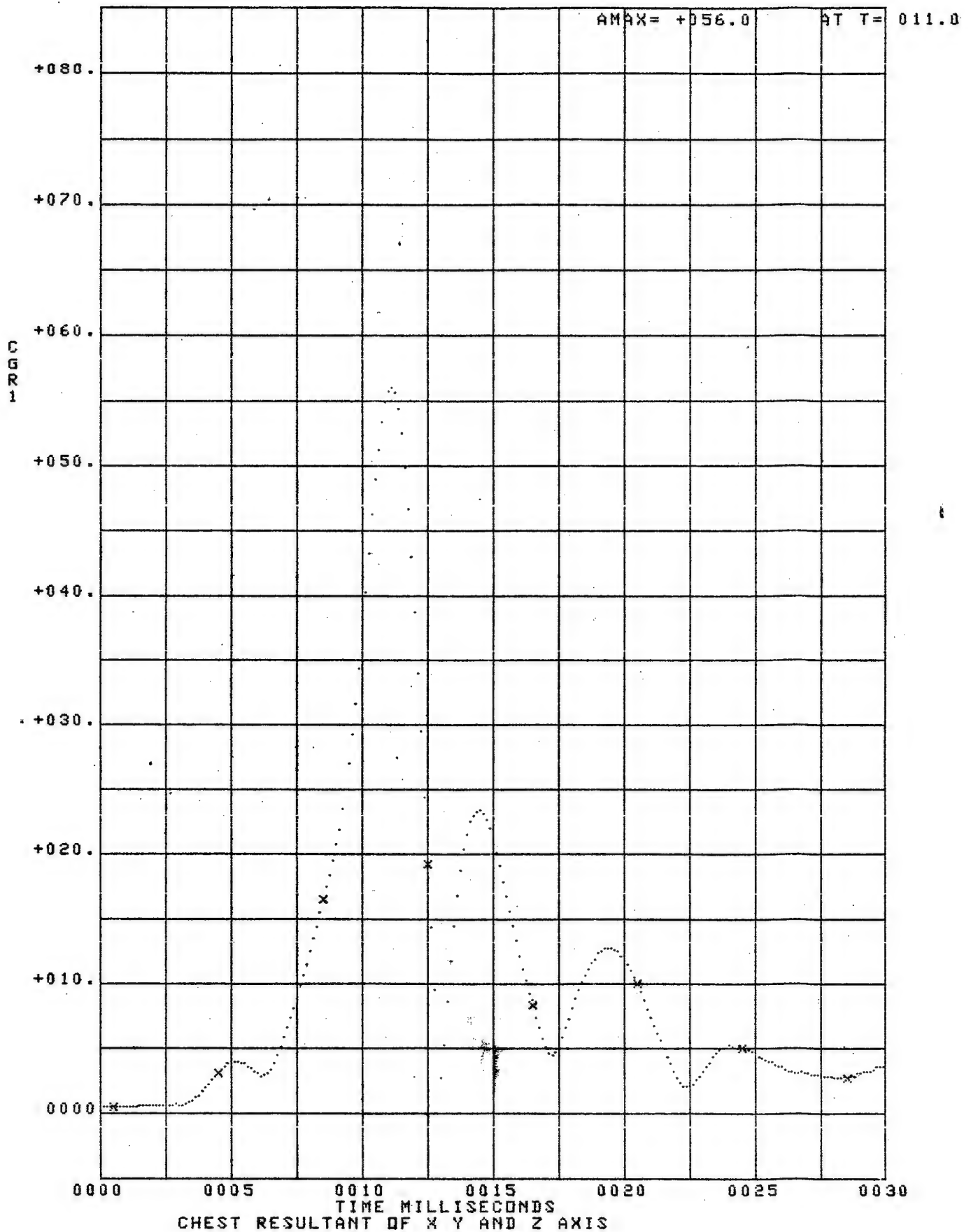
Chest Impact
Dummy No. 39, Run No. 4







CHEST IMPACT
TEST C003



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C003

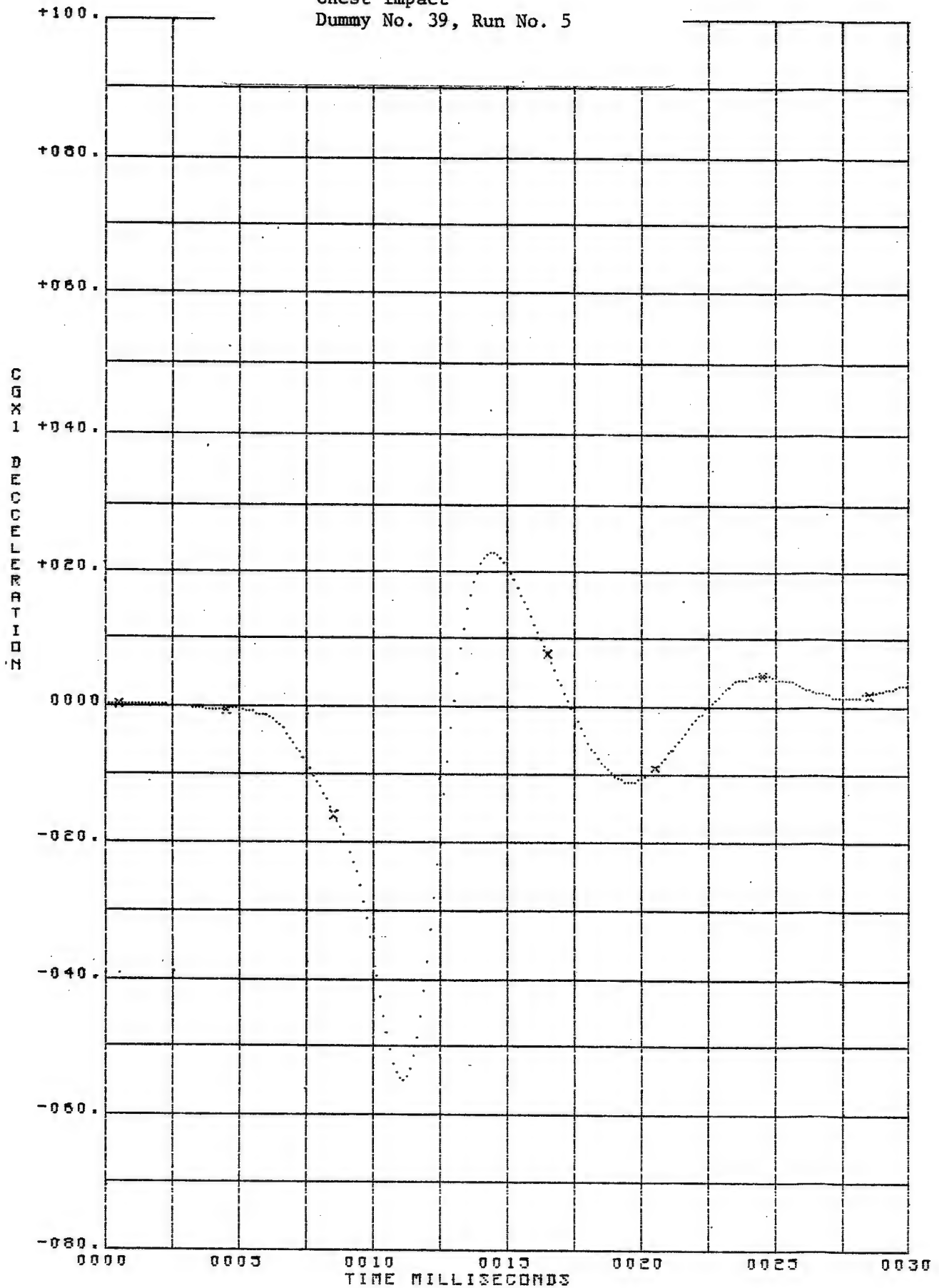
TIME					
0.0000	+000.0	+000.0	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.0	+000.1	+000.1	+000.1	+000.1
1.8750	+000.2	+000.2	+000.2	+000.2	+000.2
2.5000	+000.2	+000.2	+000.2	+000.1	+000.1
3.1250	+000.2	+000.3	+000.5	+000.7	+000.9
3.7500	+001.2	+001.5	+001.8	+002.1	+002.3
4.3750	+002.6	+002.9	+003.2	+003.3	+003.5
5.0000	+003.5	+003.5	+003.4	+003.3	+003.1
5.6250	+003.0	+002.7	+002.6	+002.4	+002.5
6.2500	+002.6	+002.9	+003.4	+004.0	+004.7
6.8750	+005.4	+006.1	+006.9	+007.7	+008.5
7.5000	+009.3	+010.2	+011.0	+011.9	+013.0
8.1250	+013.9	+015.0	+015.9	+016.9	+017.9
8.7500	+019.0	+020.2	+021.3	+022.9	+024.5
9.3750	+026.5	+028.8	+031.2	+034.0	+037.0
10.0000	+040.0	+043.0	+046.0	+048.8	+051.2
10.6250	+053.3	+054.8	+055.7	+056.0	+055.6
11.2500	+054.3	+052.4	+049.8	+046.4	+042.7
11.8750	+038.4	+033.7	+028.9	+023.8	+018.7
12.5000	+013.8	+009.0	+004.6	+002.3	+004.8
13.1250	+008.2	+011.2	+014.0	+016.3	+018.2
13.7500	+019.8	+021.0	+021.9	+022.5	+022.7
14.3750	+022.8	+022.6	+022.1	+021.4	+020.6
15.0000	+019.6	+018.6	+017.3	+016.2	+015.1
15.6250	+014.0	+012.8	+011.6	+010.7	+009.8
16.2500	+008.8	+007.9	+006.9	+006.1	+005.3
16.8750	+004.6	+004.2	+004.1	+004.3	+004.7
17.5000	+005.4	+006.1	+006.8	+007.6	+008.3
18.1250	+008.9	+009.6	+010.1	+010.6	+011.1
18.7500	+011.4	+011.8	+012.0	+012.2	+012.2
19.3750	+012.2	+012.1	+011.9	+011.6	+011.3
20.0000	+010.9	+010.5	+010.0	+009.4	+008.9
20.6250	+008.2	+007.5	+006.9	+006.3	+005.7
21.2500	+005.1	+004.5	+003.9	+003.4	+002.8
21.8750	+002.3	+001.9	+001.7	+001.6	+001.6
22.5000	+001.8	+002.1	+002.4	+002.7	+003.1
23.1250	+003.4	+003.9	+004.2	+004.4	+004.6
23.7500	+004.5	+004.7	+004.6	+004.6	+004.6
24.3750	+004.5	+004.4	+004.4	+004.3	+004.1
25.0000	+003.9	+003.8	+003.7	+003.6	+003.4
25.6250	+003.2	+003.1	+003.1	+002.9	+002.8
26.2500	+002.8	+002.6	+002.6	+002.7	+002.6
26.8750	+002.6	+002.5	+002.5	+002.5	+002.4
27.5000	+002.4	+002.4	+002.4	+002.3	+002.3
28.1250	+002.3	+002.4	+002.3	+002.4	+002.4
28.7500	+002.6	+002.6	+002.7	+002.7	+002.8
29.3750	+002.8	+003.1	+003.1	+003.2	+003.3
30.0000	+003.4	+003.5	+003.6	+003.8	+003.9
30.6250	+004.0	+004.1	+004.4	+004.4	+004.6
31.2500	+004.6	+004.8	+005.0	+005.0	+005.2
31.8750	+005.4	+005.5	+005.6	+005.7	+005.9
32.5000	+006.0	+006.1	+006.1	+006.1	+006.1
33.1250	+006.2	+006.2	+006.3	+006.3	+006.3
33.7500	+006.3	+006.3	+006.3	+006.2	+006.2
34.3750	+006.1	+006.0	+006.0	+005.9	+005.8
35.0000	+005.7	+005.6	+005.4	+005.3	+005.1
35.6250	+005.0	+004.8	+004.6	+004.4	+004.3
36.2500	+004.0	+003.8	+003.6	+003.4	+003.2
36.8750	+003.0	+002.8	+002.7	+002.5	+002.4

RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C003		
37.5000	+002.1	+002.1	+001.9	+001.7	+001.7	+001.7
38.1250	+001.5	+001.4	+001.3	+001.2	+001.2	+001.1
38.7500	+001.1	+001.0	+001.0	+001.0	+001.0	+001.0
39.3750	+000.9	+001.0	+001.0	+001.0	+001.0	+001.0
40.0000	+001.0	+001.0	+001.2	+001.3	+001.3	+001.3
40.6250	+001.3	+001.4	+001.4	+001.5	+001.5	+001.5
41.2500	+001.6	+001.7	+001.7	+001.8	+001.8	+001.8
41.8750	+001.9	+001.9	+002.0	+002.0	+002.0	+002.0
42.5000	+002.1	+002.1	+002.1	+002.1	+002.1	+002.2
43.1250	+002.2	+002.2	+002.2	+002.2	+002.1	+002.2
43.7500	+002.2	+002.2	+002.2	+002.2	+002.2	+002.3
44.3750	+002.3	+002.3	+002.3	+002.3	+002.3	+002.3
45.0000	+002.3	+002.3	+002.3	+002.3	+002.3	+002.3
45.6250	+002.3	+002.3	+002.4	+002.4	+002.4	+002.4
46.2500	+002.4	+002.4	+002.4	+002.4	+002.4	+002.4
46.8750	+002.4	+002.4	+002.4	+002.4	+002.4	+002.4
47.5000	+002.5	+002.5	+002.5	+002.5	+002.5	+002.5
48.1250	+002.5	+002.5	+002.6	+002.6	+002.6	+002.6
48.7500	+002.6	+002.6	+002.6	+002.6	+002.6	+002.5
49.3750	+002.5	+002.5	+002.5	+002.5	+002.5	+002.5
50.0000	+002.5	+002.5	+002.4	+002.4	+002.4	+002.5
50.6250	+002.5	+002.5	+002.5	+002.5	+002.5	+002.5
51.2500	+002.4	+002.4	+002.4	+002.3	+002.3	+002.4
51.8750	+002.4	+002.4	+002.4	+002.4	+002.4	+002.3
52.5000	+002.4	+002.3	+002.3	+002.3	+002.3	+002.3
53.1250	+002.2	+002.2	+002.2	+002.2	+002.2	+002.1
53.7500	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
54.3750	+002.1	+002.0	+002.1	+002.0	+002.0	+001.9
55.0000	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
55.6250	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
56.2500	+001.9	+001.9	+001.9	+001.9	+001.9	+001.9
56.8750	+001.9	+001.8	+001.8	+001.8	+001.8	+001.8
57.5000	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
58.1250	+001.7	+001.8	+001.8	+001.8	+001.8	+001.7
58.7500	+001.7	+001.7	+001.7	+001.7	+001.7	+001.7
59.3750	+001.6	+001.6	+001.6	+001.6	+001.6	+313.4

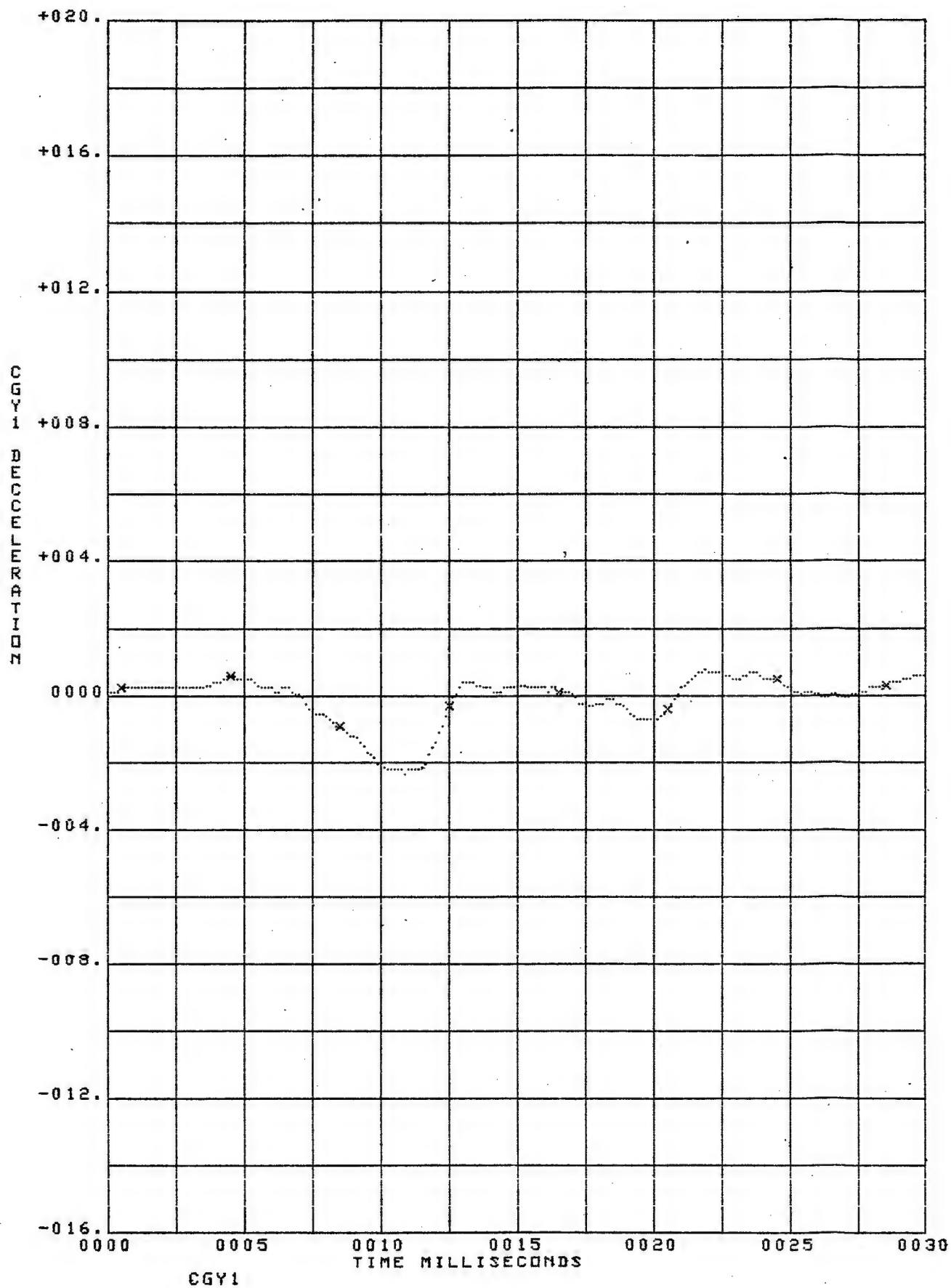
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AT T=011.0

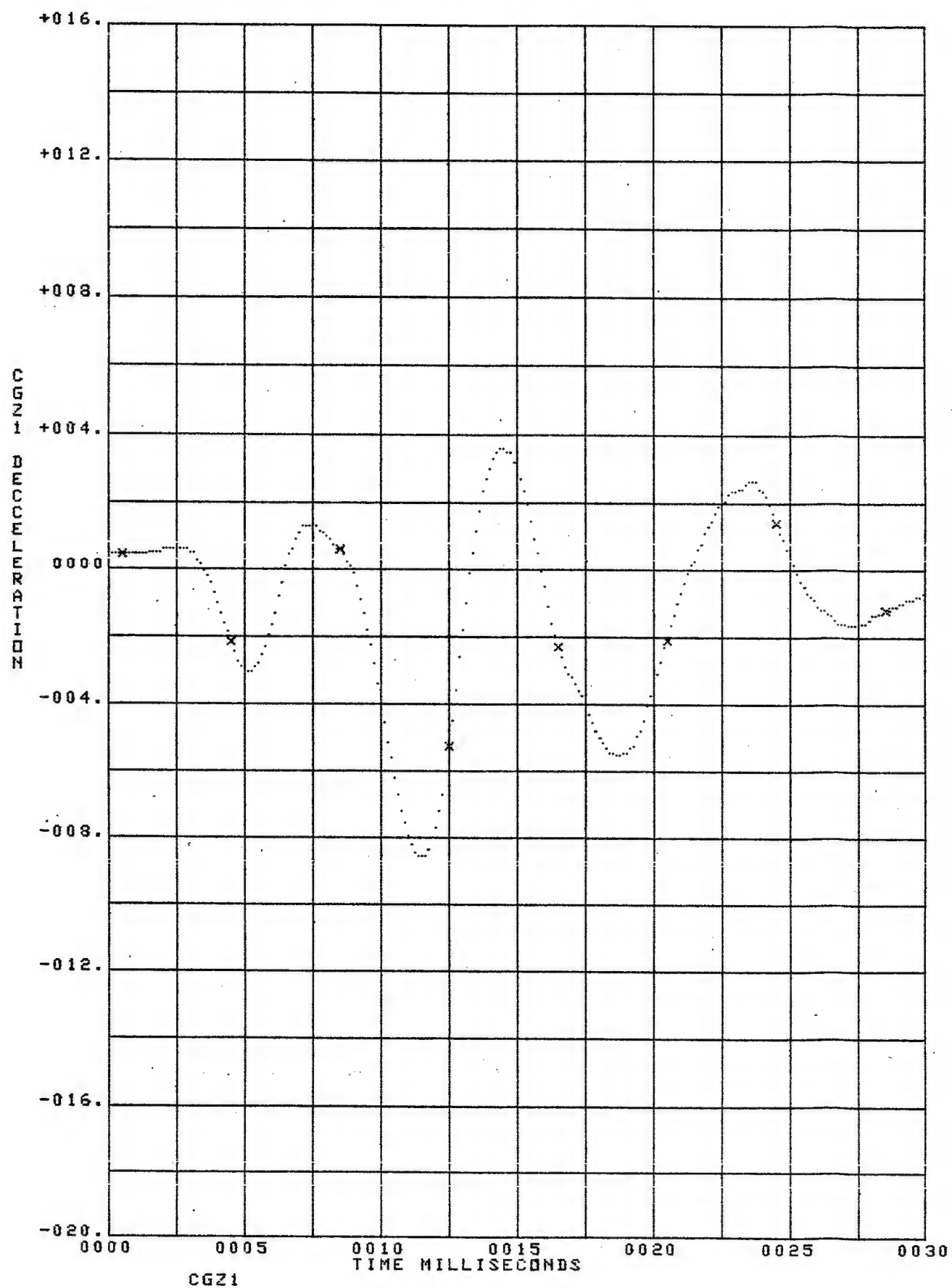
Chest Impact
Dummy No. 39, Run No. 5



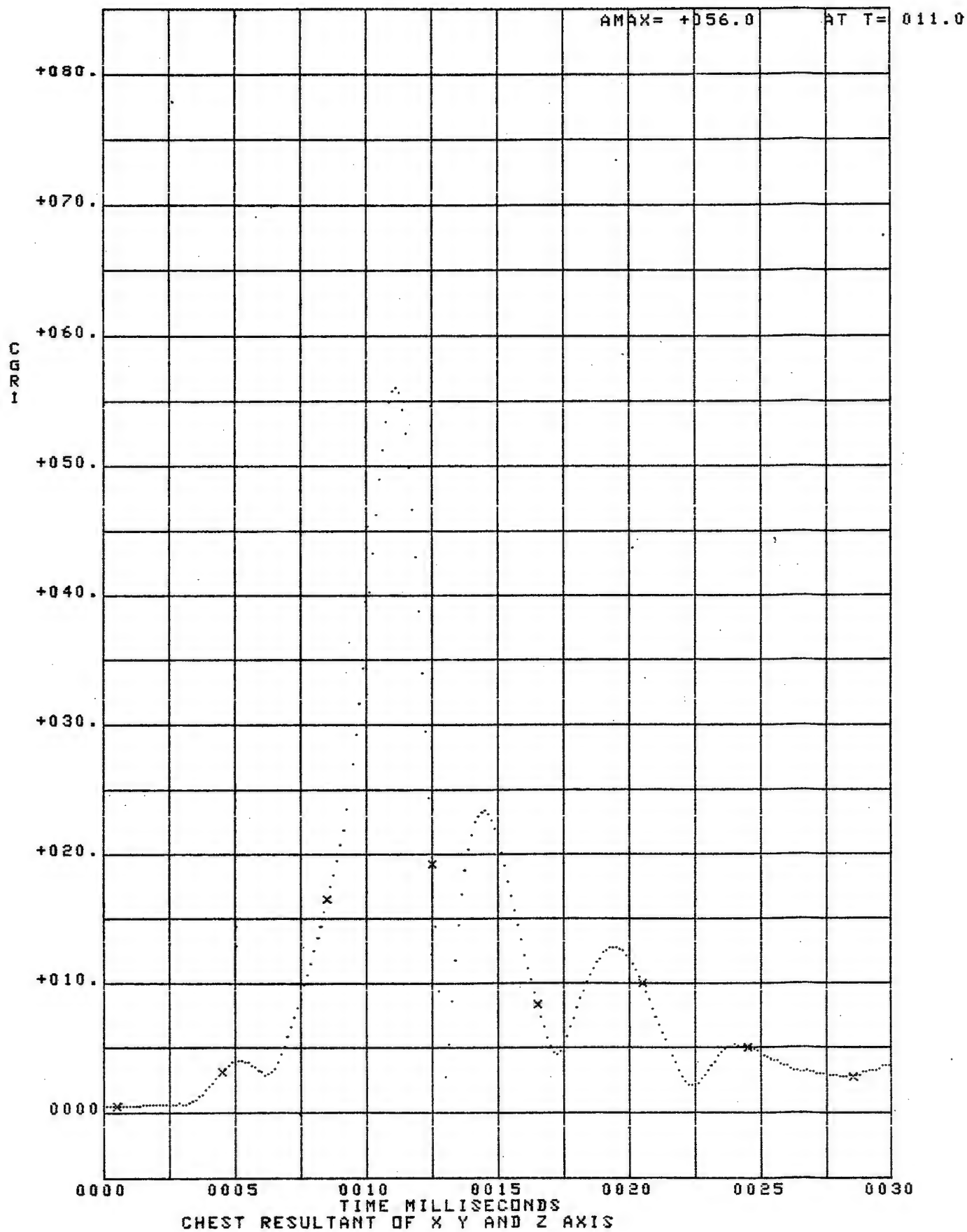
CHEST IMPACT
TEST C002



CHEST IMPACT
TEST C002



CHEST IMPACT
TEST C002



RESULTANT (CGR1) OF CGX1 CGY1 CGZ1 C002

TIME					
0.0000	+000.0	+000.0	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.0	+000.1	+000.1	+000.1	+000.1
1.8750	+000.2	+000.2	+000.2	+000.2	+000.2
2.5000	+000.2	+000.2	+000.2	+000.1	+000.1
3.1250	+000.2	+000.3	+000.5	+000.7	+000.9
3.7500	+001.2	+001.5	+001.8	+002.1	+002.3
4.3750	+002.6	+002.9	+003.2	+003.3	+003.5
5.0000	+003.5	+003.5	+003.4	+003.3	+003.1
5.6250	+003.0	+002.7	+002.6	+002.4	+002.5
6.2500	+002.6	+002.9	+003.4	+004.0	+004.7
6.8750	+005.4	+006.1	+006.9	+007.7	+008.5
7.5000	+009.3	+010.2	+011.0	+011.9	+013.0
8.1250	+013.9	+015.0	+015.9	+016.9	+017.9
8.7500	+019.0	+020.2	+021.3	+022.9	+024.5
9.3750	+026.5	+028.8	+031.2	+034.0	+037.0
10.0000	+040.0	+043.0	+046.0	+048.8	+051.2
10.6250	+053.3	+054.8	+055.7	+056.0	+055.6
11.2500	+054.3	+052.4	+049.8	+046.4	+042.7
11.8750	+038.4	+033.7	+028.9	+023.8	+018.7
12.5000	+013.8	+009.0	+004.6	+002.3	+004.8
13.1250	+008.2	+011.2	+014.0	+016.3	+018.2
13.7500	+019.8	+021.0	+021.9	+022.5	+022.7
14.3750	+022.8	+022.6	+022.1	+021.4	+020.6
15.0000	+019.6	+018.6	+017.3	+016.2	+015.1
15.6250	+014.0	+012.8	+011.6	+010.7	+009.8
16.2500	+008.8	+007.9	+006.9	+006.1	+005.3
16.8750	+004.6	+004.2	+004.1	+004.3	+004.7
17.5000	+005.4	+006.1	+006.8	+007.6	+008.3
18.1250	+008.9	+009.6	+010.1	+010.6	+011.1
18.7500	+011.4	+011.8	+012.0	+012.2	+012.2
19.3750	+012.2	+012.1	+011.9	+011.6	+011.3
20.0000	+010.9	+010.5	+010.0	+009.4	+008.9
20.6250	+008.2	+007.5	+006.9	+006.3	+005.7
21.2500	+005.1	+004.5	+003.9	+003.4	+002.8
21.8750	+002.3	+001.9	+001.7	+001.6	+001.6
22.5000	+001.8	+002.1	+002.4	+002.7	+003.1
23.1250	+003.4	+003.9	+004.2	+004.4	+004.6
23.7500	+004.5	+004.7	+004.6	+004.6	+004.6
24.3750	+004.5	+004.4	+004.4	+004.3	+004.1
25.0000	+003.9	+003.8	+003.7	+003.6	+003.4
25.6250	+003.2	+003.1	+003.1	+002.9	+002.8
26.2500	+002.8	+002.6	+002.6	+002.7	+002.6
26.8750	+002.6	+002.5	+002.5	+002.5	+002.4
27.5000	+002.4	+002.4	+002.4	+002.3	+002.3
28.1250	+002.3	+002.4	+002.3	+002.4	+002.4
28.7500	+002.6	+002.6	+002.7	+002.7	+002.8
29.3750	+002.8	+003.1	+003.1	+003.2	+003.3
30.0000	+003.4	+003.5	+003.6	+003.8	+003.9
30.6250	+004.0	+004.1	+004.4	+004.4	+004.6
31.2500	+004.6	+004.8	+005.0	+005.0	+005.2
31.8750	+005.4	+005.5	+005.6	+005.7	+005.9
32.5000	+006.0	+006.1	+006.1	+006.1	+006.1
33.1250	+006.2	+006.2	+006.3	+006.3	+006.3
33.7500	+006.3	+006.3	+006.3	+006.2	+006.2
34.3750	+006.1	+006.0	+006.0	+005.9	+005.8
35.0000	+005.7	+005.6	+005.4	+005.3	+005.1
35.6250	+005.0	+004.8	+004.6	+004.4	+004.3
36.2500	+004.0	+003.8	+003.6	+003.4	+003.2
36.8750	+003.0	+002.8	+002.7	+002.5	+002.4

RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C002		
37.5000	+002.1	+002.1	+001.9	+001.7	+001.7	
38.1250	+001.5	+001.4	+001.3	+001.2	+001.1	
38.7500	+001.1	+001.0	+001.0	+001.0	+001.0	
39.3750	+000.9	+001.0	+001.0	+001.0	+001.0	
40.0000	+001.0	+001.0	+001.2	+001.3	+001.3	
40.6250	+001.3	+001.4	+001.4	+001.5	+001.5	
41.2500	+001.6	+001.7	+001.7	+001.8	+001.8	
41.8750	+001.9	+001.9	+002.0	+002.0	+002.0	
42.5000	+002.1	+002.1	+002.1	+002.1	+002.2	
43.1250	+002.2	+002.2	+002.2	+002.1	+002.2	
43.7500	+002.2	+002.2	+002.2	+002.2	+002.3	
44.3750	+002.3	+002.3	+002.3	+002.3	+002.3	
45.0000	+002.3	+002.3	+002.3	+002.3	+002.3	
45.6250	+002.3	+002.3	+002.4	+002.4	+002.4	
46.2500	+002.4	+002.4	+002.4	+002.4	+002.4	
46.8750	+002.4	+002.4	+002.4	+002.4	+002.4	
47.5000	+002.5	+002.5	+002.5	+002.5	+002.5	
48.1250	+002.5	+002.5	+002.6	+002.6	+002.6	
48.7500	+002.6	+002.6	+002.6	+002.6	+002.5	
49.3750	+002.5	+002.5	+002.5	+002.5	+002.5	
50.0000	+002.5	+002.5	+002.4	+002.4	+002.5	
50.6250	+002.5	+002.5	+002.5	+002.5	+002.5	
51.2500	+002.4	+002.4	+002.4	+002.3	+002.4	
51.8750	+002.4	+002.4	+002.4	+002.4	+002.3	
52.5000	+002.4	+002.3	+002.3	+002.3	+002.3	
53.1250	+002.2	+002.2	+002.2	+002.2	+002.1	
53.7500	+002.1	+002.1	+002.1	+002.1	+002.1	
54.3750	+002.1	+002.0	+002.1	+002.0	+001.9	
55.0000	+002.0	+002.0	+002.0	+002.0	+002.0	
55.6250	+002.0	+002.0	+002.0	+002.0	+002.0	
56.2500	+001.9	+001.9	+001.9	+001.9	+001.9	
56.8750	+001.9	+001.8	+001.8	+001.8	+001.8	
57.5000	+001.7	+001.7	+001.7	+001.7	+001.7	
58.1250	+001.7	+001.8	+001.8	+001.8	+001.7	
58.7500	+001.7	+001.7	+001.7	+001.7	+001.7	
59.3750	+001.6	+001.6	+001.6	+001.6	+313.4	

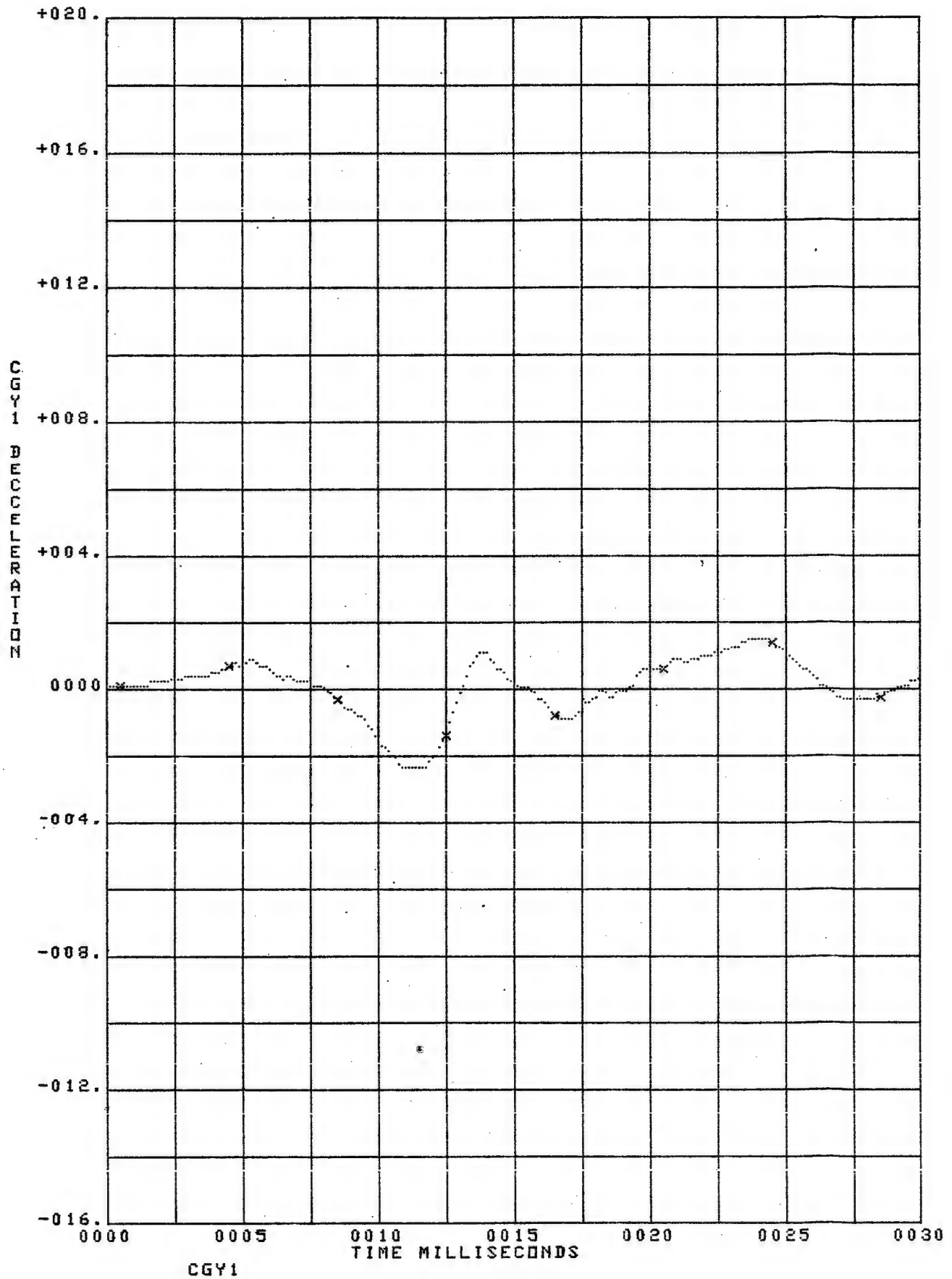
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AT T=011.0

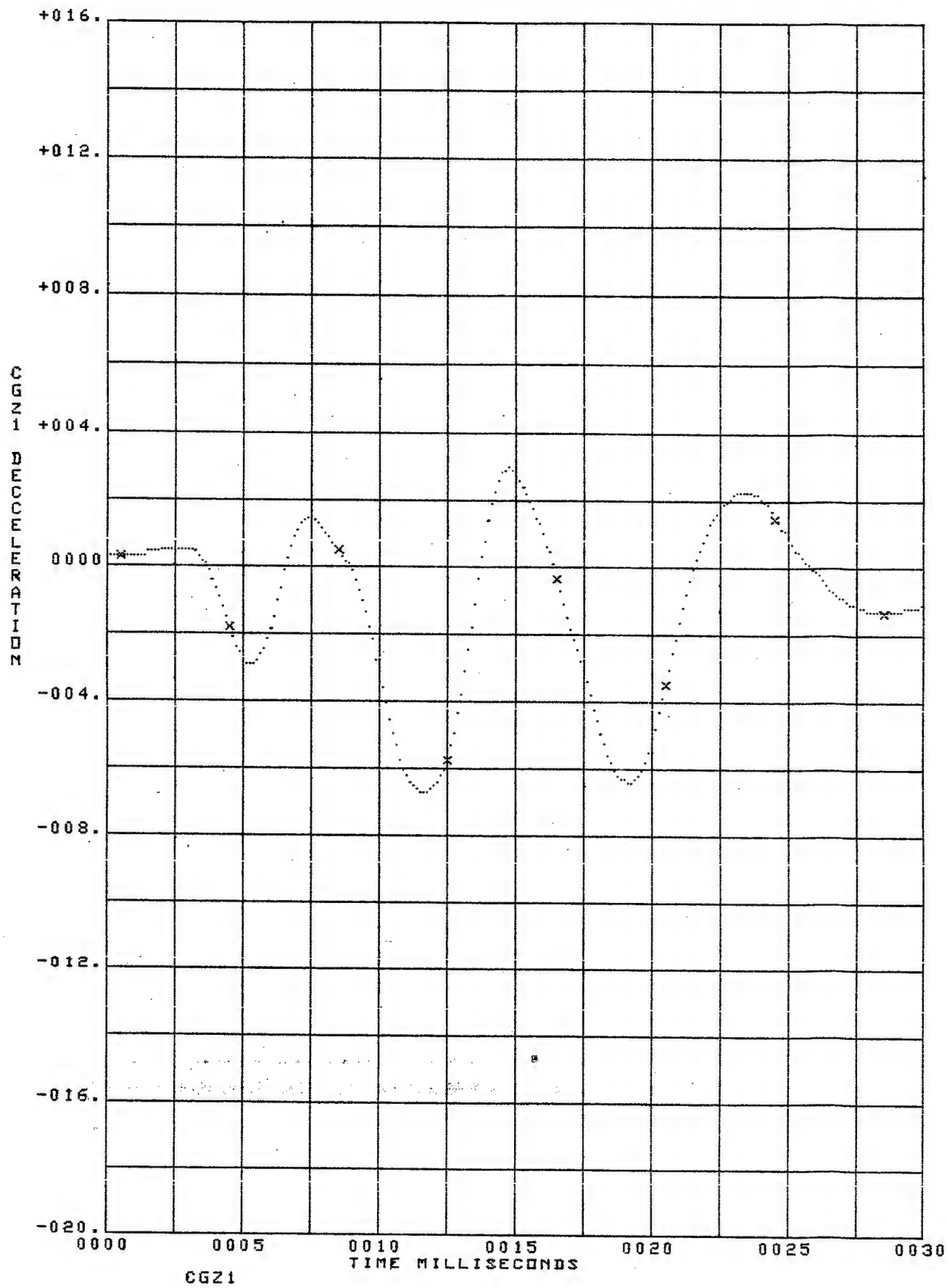
Chest Impact
Dummy No. 39, Run No. 6



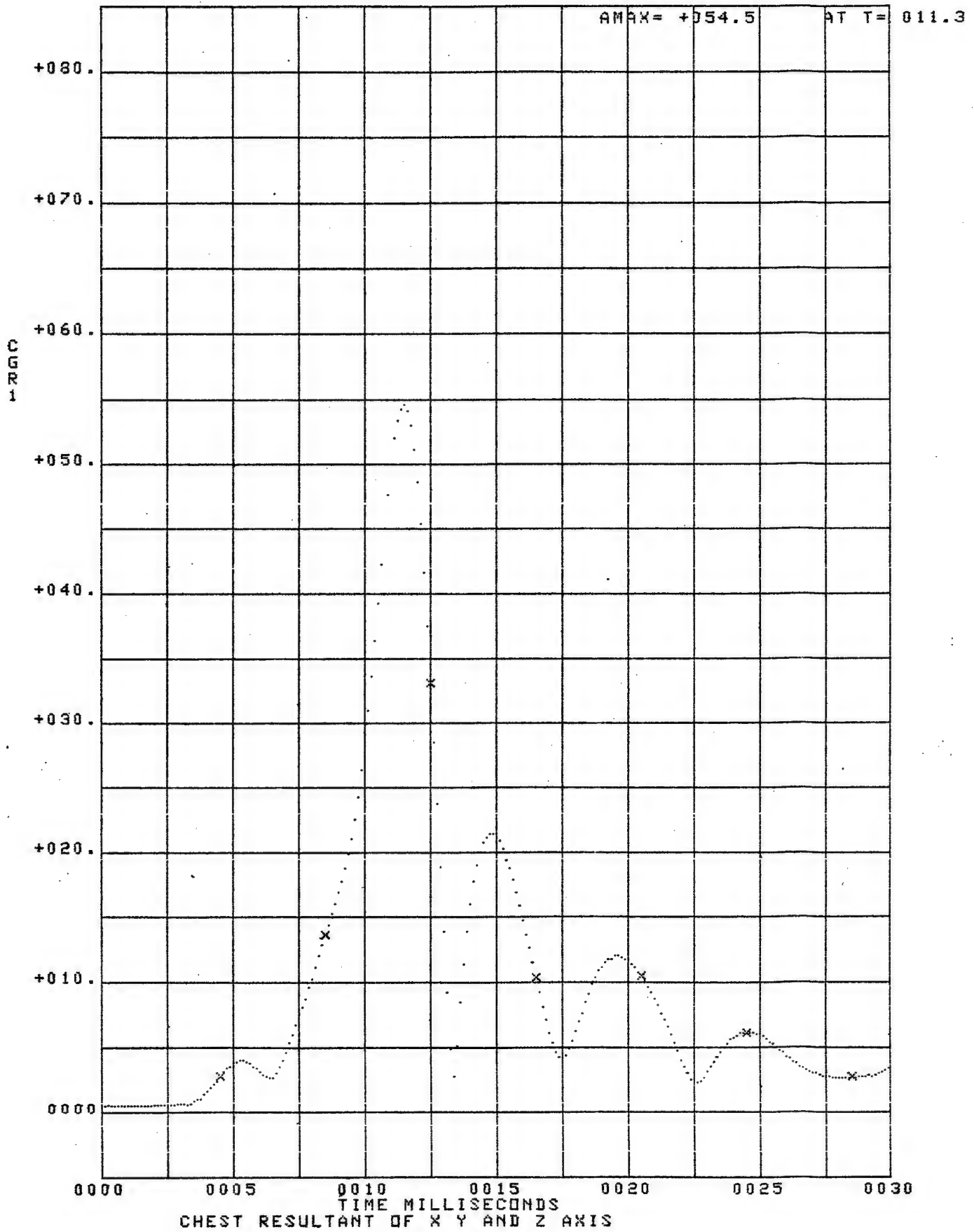
CHEST IMPACT
TEST C001



CHEST IMPACT
TEST C001



CHEST IMPACT
TEST C001



RESULTANT (CGR1) DF CGX1 CGY1 CGZ1 C001

TIME					
0.0000	+000.0	+000.1	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.0	+000.0	+000.0	+000.0	+000.0
1.8750	+000.1	+000.1	+000.1	+000.1	+000.1
2.5000	+000.1	+000.1	+000.2	+000.2	+000.2
3.1250	+000.2	+000.2	+000.4	+000.4	+000.6
3.7500	+000.9	+001.1	+001.4	+001.7	+001.9
4.3750	+002.2	+002.6	+002.9	+003.0	+003.2
5.0000	+003.4	+003.4	+003.5	+003.3	+003.2
5.6250	+003.0	+002.8	+002.6	+002.4	+002.2
6.2500	+002.1	+002.2	+002.5	+003.0	+003.6
6.8750	+004.2	+004.9	+005.5	+006.2	+006.9
7.5000	+007.6	+008.3	+009.0	+009.8	+010.6
8.1250	+011.4	+012.3	+013.1	+013.9	+014.8
8.7500	+015.5	+016.3	+017.2	+018.2	+019.3
9.3750	+020.5	+022.0	+023.7	+025.8	+028.0
10.0000	+030.5	+033.2	+036.1	+038.9	+041.9
10.6250	+044.8	+047.4	+049.8	+051.8	+053.3
11.2500	+054.2	+054.5	+054.0	+053.0	+051.0
11.8750	+048.5	+045.2	+041.4	+037.2	+032.7
12.5000	+028.0	+023.1	+018.3	+013.4	+008.7
13.1250	+004.4	+002.3	+004.7	+007.9	+010.8
13.7500	+013.4	+015.5	+017.2	+018.5	+019.5
14.3750	+020.2	+020.6	+020.8	+020.8	+020.6
15.0000	+020.3	+019.7	+018.9	+018.2	+017.3
15.6250	+016.3	+015.4	+014.3	+013.1	+012.0
16.2500	+011.0	+009.8	+008.7	+007.6	+006.6
16.8750	+005.7	+004.8	+004.1	+003.8	+003.7
17.5000	+003.9	+004.4	+005.0	+005.7	+006.5
18.1250	+007.2	+008.0	+008.6	+009.3	+009.9
18.7500	+010.3	+010.6	+011.0	+011.2	+011.3
19.3750	+011.5	+011.5	+011.4	+011.2	+011.1
20.0000	+010.9	+010.6	+010.3	+010.0	+009.7
20.6250	+009.1	+008.7	+008.2	+007.7	+007.2
21.2500	+006.6	+006.1	+005.5	+004.9	+004.2
21.8750	+003.6	+003.0	+002.5	+002.1	+001.8
22.5000	+001.7	+001.9	+002.1	+002.6	+003.0
23.1250	+003.3	+003.7	+004.1	+004.5	+004.8
23.7500	+005.1	+005.2	+005.4	+005.6	+005.7
24.3750	+005.6	+005.7	+005.6	+005.5	+005.5
25.0000	+005.3	+005.1	+004.9	+004.7	+004.5
25.6250	+004.3	+004.1	+003.8	+003.6	+003.4
26.2500	+003.3	+003.0	+002.9	+002.8	+002.6
26.8750	+002.5	+002.5	+002.4	+002.3	+002.2
27.5000	+002.2	+002.1	+002.2	+002.2	+002.2
28.1250	+002.2	+002.2	+002.2	+002.2	+002.2
28.7500	+002.3	+002.3	+002.3	+002.3	+002.4
29.3750	+002.5	+002.6	+002.8	+002.8	+002.9
30.0000	+003.1	+003.1	+003.2	+003.5	+003.6
30.6250	+003.8	+003.9	+004.0	+004.1	+004.4
31.2500	+004.5	+004.6	+004.6	+004.8	+005.0
31.8750	+005.2	+005.3	+005.4	+005.6	+005.7
32.5000	+005.8	+005.9	+006.0	+006.1	+006.1
33.1250	+006.3	+006.4	+006.4	+006.5	+006.5
33.7500	+006.4	+006.4	+006.4	+006.3	+006.3
34.3750	+006.2	+006.1	+006.0	+005.8	+005.7
35.0000	+005.6	+005.4	+005.3	+005.1	+004.9
35.6250	+004.8	+004.6	+004.4	+004.2	+004.0
36.2500	+003.8	+003.6	+003.5	+003.3	+003.2
36.8750	+003.0	+002.8	+002.5	+002.4	+002.3

RESULTANT (CGR1) OF	CGX1	CGY1	CGZ1	C001		
37.5000	+002.1	+001.9	+001.8	+001.8	+001.8	+001.6
38.1250	+001.6	+001.4	+001.3	+001.3	+001.3	+001.2
38.7500	+001.2	+001.1	+001.1	+001.1	+001.1	+001.1
39.3750	+001.1	+001.1	+001.1	+001.1	+001.2	+001.3
40.0000	+001.3	+001.4	+001.4	+001.4	+001.5	+001.6
40.6250	+001.6	+001.7	+001.8	+001.8	+001.9	+001.9
41.2500	+002.0	+002.0	+002.1	+002.1	+002.1	+002.1
41.8750	+002.2	+002.2	+002.3	+002.3	+002.3	+002.3
42.5000	+002.4	+002.4	+002.4	+002.4	+002.4	+002.4
43.1250	+002.4	+002.4	+002.2	+002.2	+002.2	+002.2
43.7500	+002.2	+002.2	+002.2	+002.2	+002.2	+002.2
44.3750	+002.2	+002.2	+002.2	+002.2	+002.2	+002.2
45.0000	+002.2	+002.1	+002.1	+002.1	+002.1	+002.0
45.6250	+002.0	+002.0	+002.0	+002.0	+002.1	+002.1
46.2500	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
46.8750	+002.1	+002.1	+002.1	+002.1	+002.1	+002.1
47.5000	+002.1	+002.1	+002.1	+002.1	+002.0	+002.0
48.1250	+002.1	+002.0	+002.1	+002.1	+002.1	+002.0
48.7500	+002.0	+002.1	+002.1	+002.1	+002.1	+002.1
49.3750	+002.1	+002.1	+002.0	+002.0	+002.0	+002.0
50.0000	+002.0	+001.9	+001.9	+001.9	+001.9	+001.9
50.6250	+001.8	+001.9	+001.9	+001.9	+001.9	+001.9
51.2500	+001.9	+002.0	+002.0	+002.0	+001.9	+001.9
51.8750	+001.9	+002.0	+002.0	+002.0	+001.9	+002.0
52.5000	+001.9	+001.9	+001.9	+002.0	+002.0	+002.0
53.1250	+001.9	+001.9	+001.9	+001.9	+001.9	+001.9
53.7500	+001.9	+001.8	+001.8	+001.8	+001.8	+001.8
54.3750	+001.8	+001.8	+001.9	+001.9	+001.9	+001.9
55.0000	+001.9	+001.9	+001.9	+001.9	+001.8	+001.8
55.6250	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
56.2500	+001.8	+001.8	+001.8	+001.8	+001.8	+001.8
56.8750	+001.8	+001.9	+001.8	+001.9	+001.9	+001.9
57.5000	+001.9	+001.9	+001.9	+001.9	+001.9	+001.9
58.1250	+001.9	+002.0	+002.0	+002.0	+002.0	+001.9
58.7500	+002.0	+002.0	+002.0	+002.0	+002.0	+002.0
59.3750	+002.0	+002.0	+002.0	+002.0	+002.0	+313.4

AMAX= +054.5

AT T=011.3

24 MAR. 78
3 YR. OLD NECK PENDULUM

TEST # 006

RELEASE HOLE #

9

" hgt.

84 $\frac{3}{4}$ "

HEAD #

31

HEXCELL

STANDARD

VELOCITY

17.25 fps

RESULTS

HEXCELL CRUSHED TO

4.0"

RESULTANT

29.4 G

T2 - T1

1.5 ms

T3 - T2

19.5 "

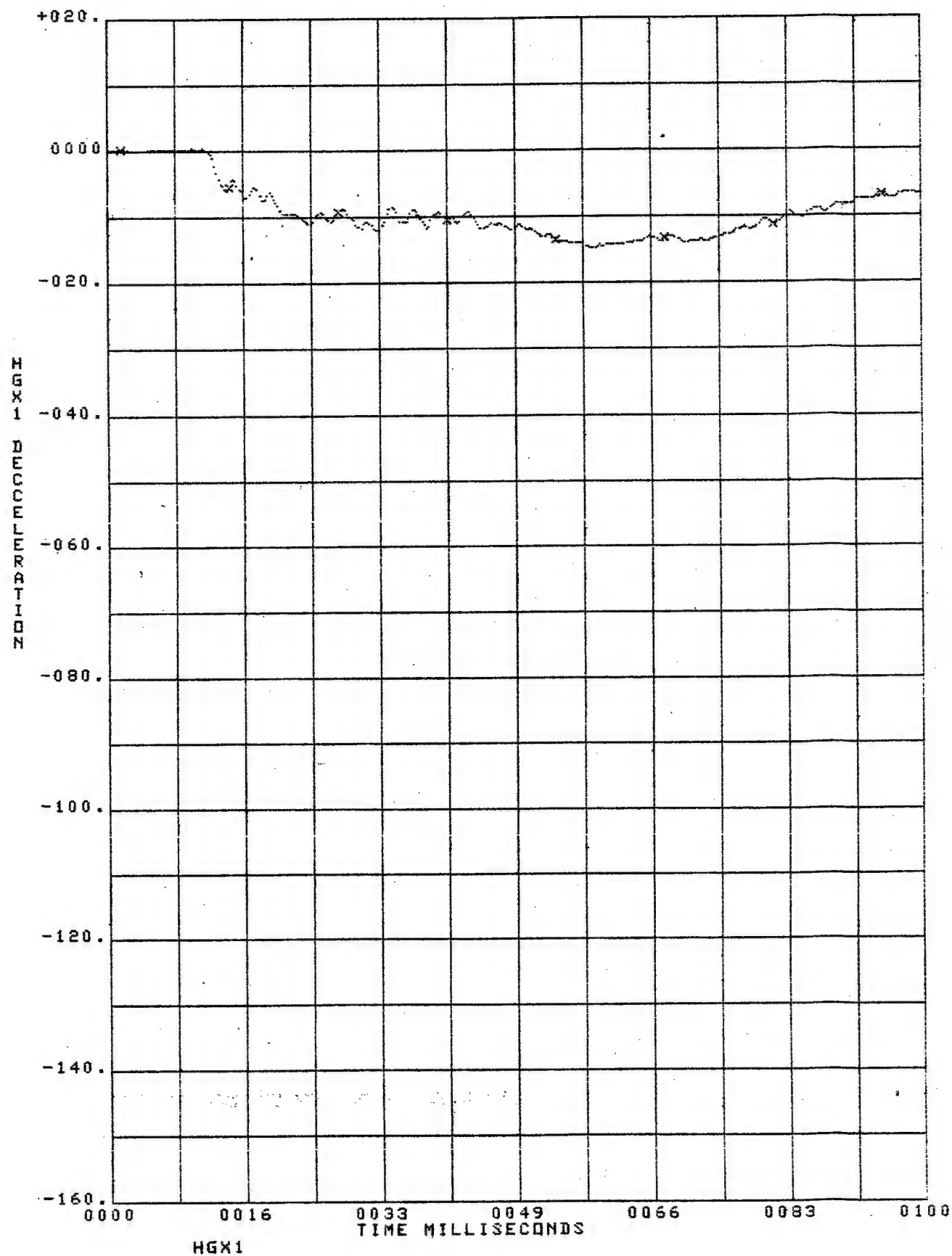
T4 - T3

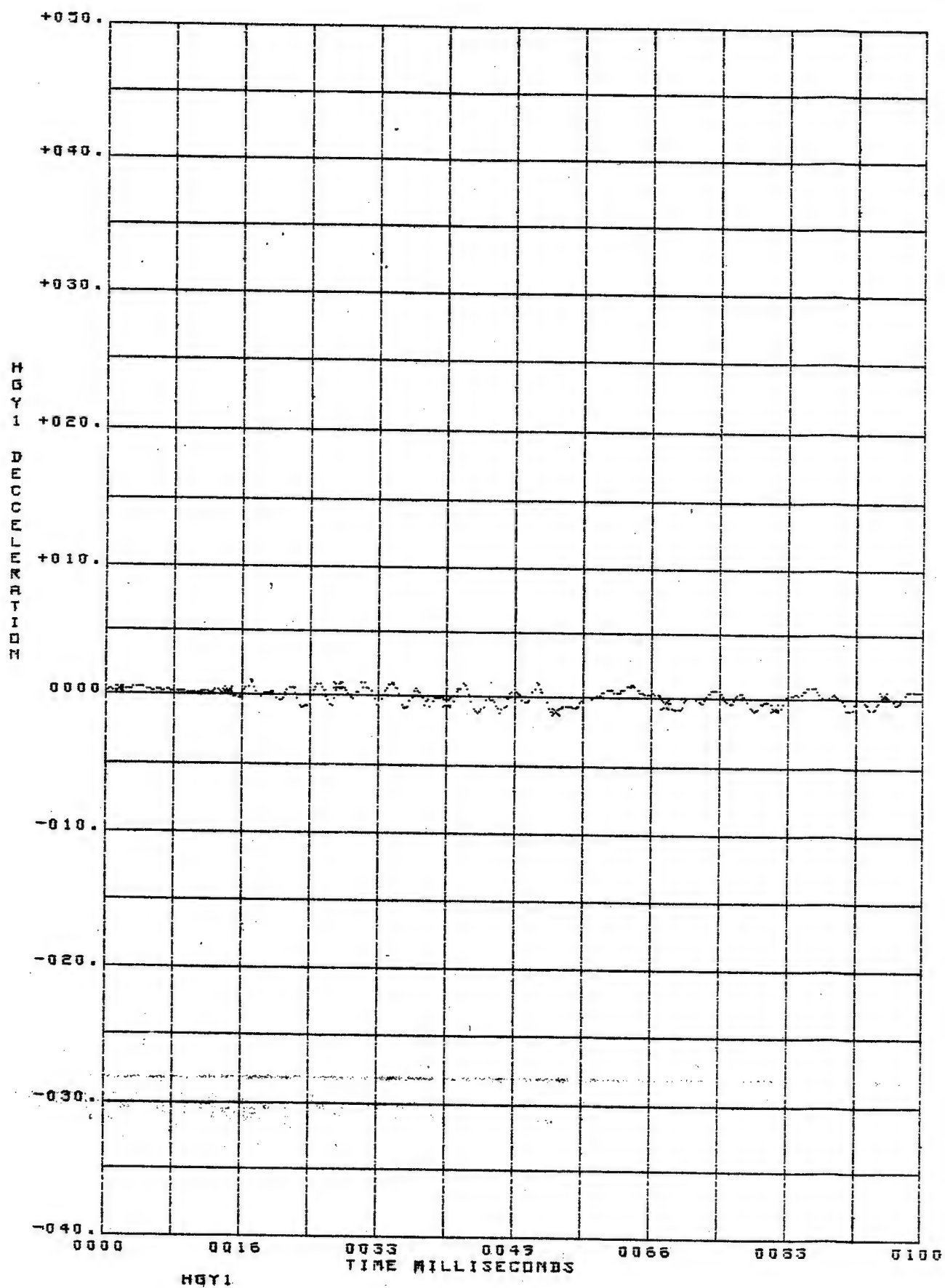
1.75 "

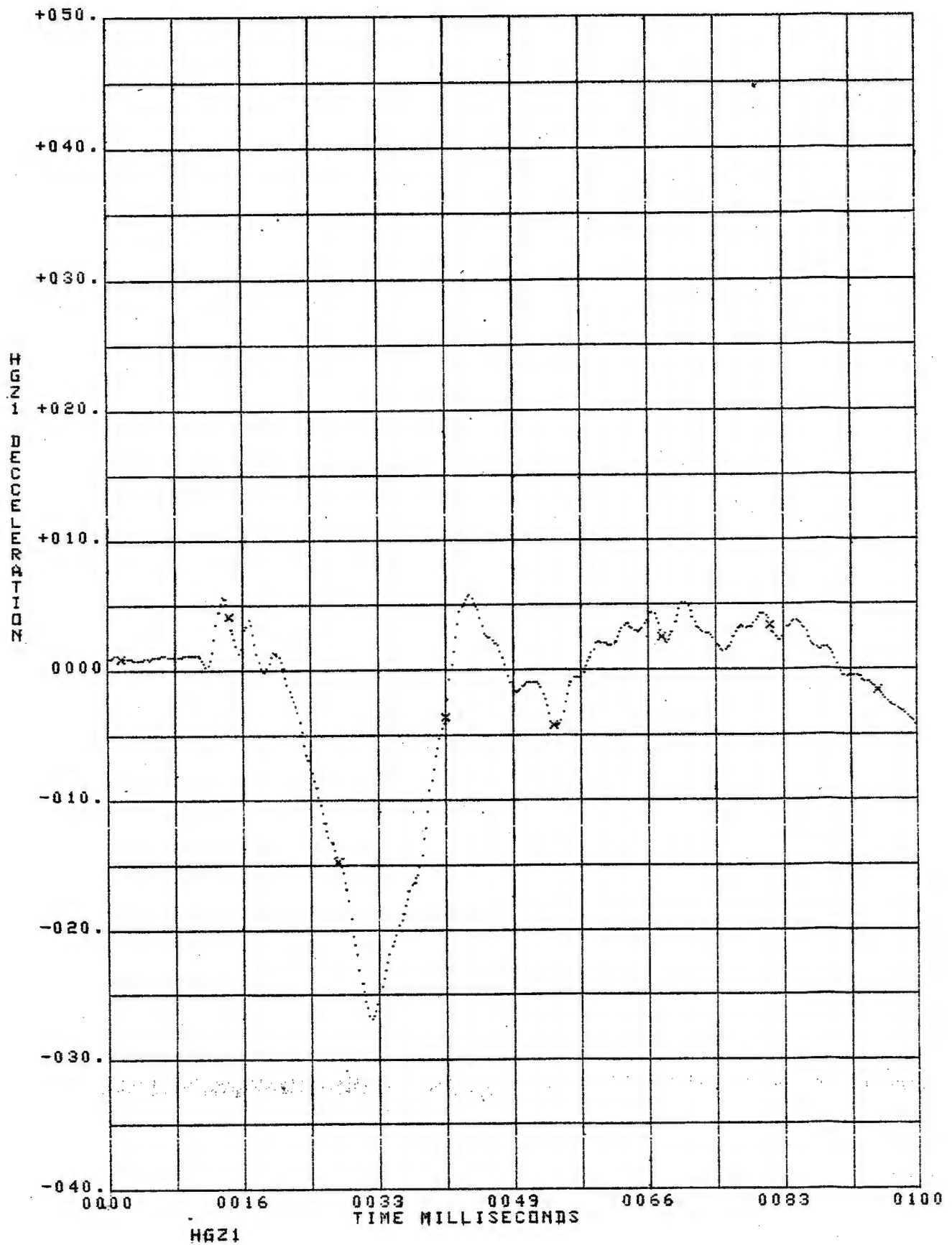
Ave T3-T2

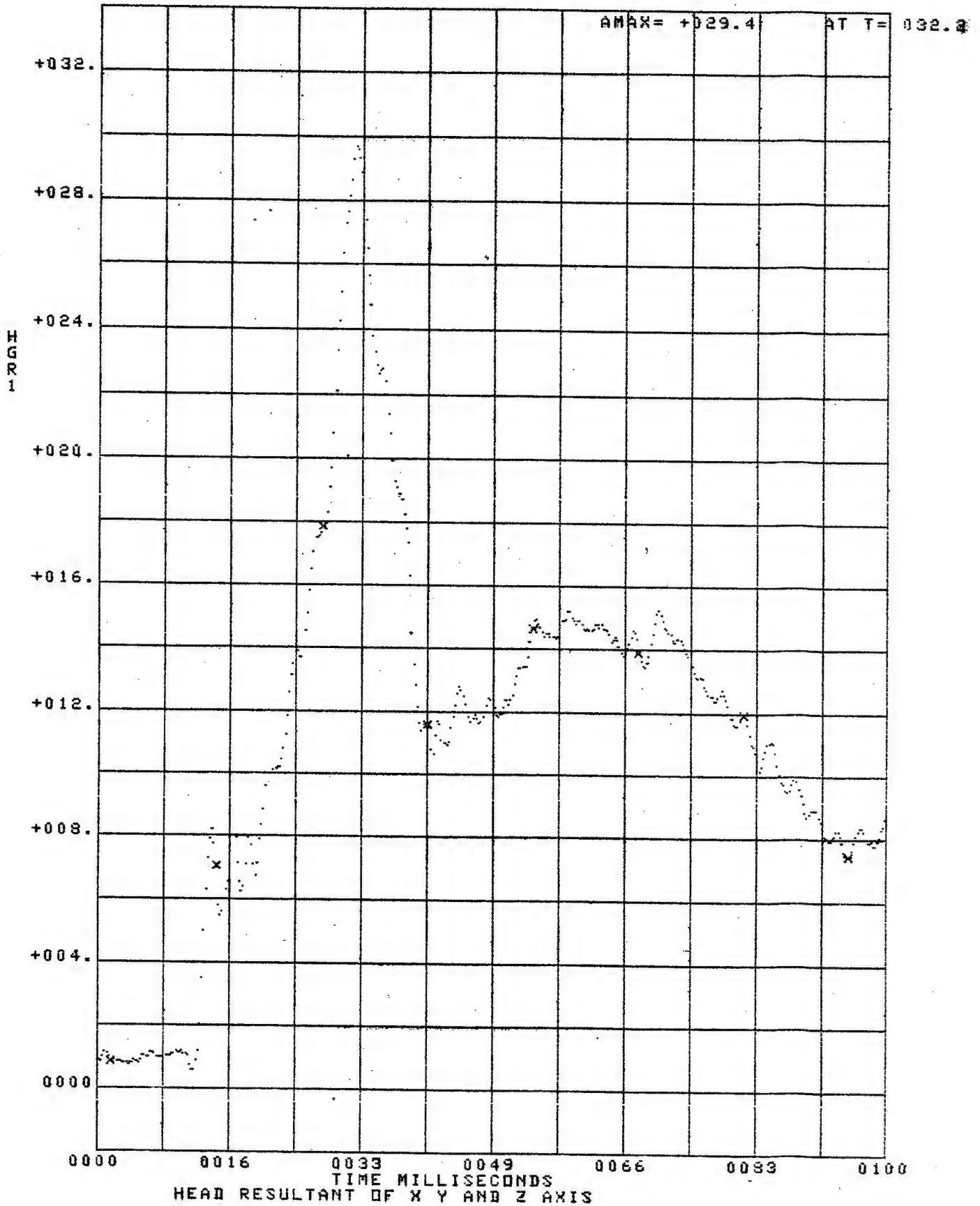
26.6 G

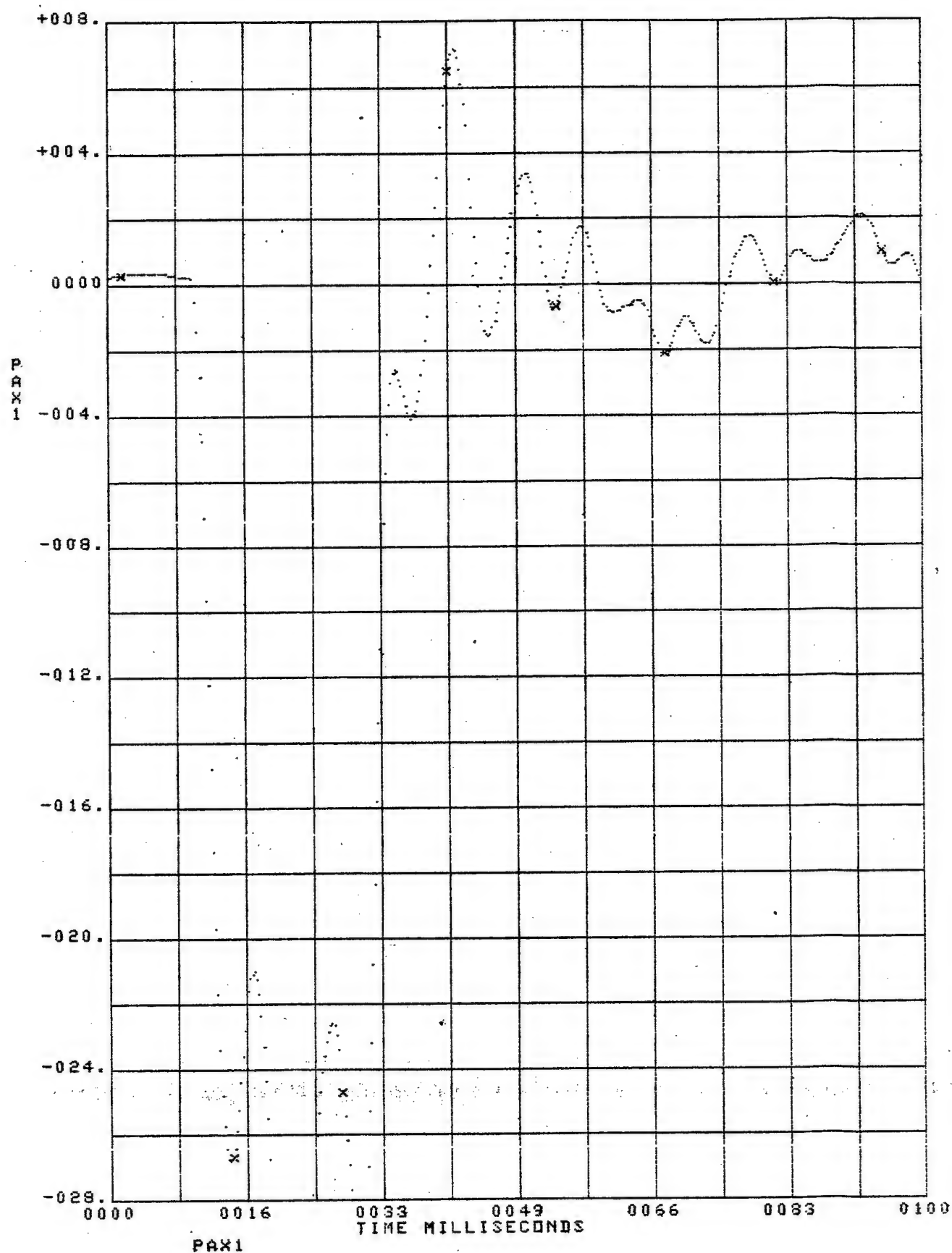
Rotation	Time	Disp
0°	0 ms	0 in.
30°	21	1.98
60°	36	4.06
80.5°	59	5.19
60°	80	4.34
30°	101	2.12
0°	118	-0.27











VARIABLE PAX1 TRC006

TIME					
0.00	+000.0	+000.0	+000.1	+000.1	+000.1
1.25	+000.1	+000.1	+000.1	+000.1	+000.1
2.50	+000.1	+000.1	+000.1	+000.1	+000.1
3.75	+000.1	+000.1	+000.1	+000.1	+000.1
5.00	+000.1	+000.1	+000.1	+000.1	+000.1
6.25	+000.1	+000.1	+000.1	+000.1	+000.1
7.50	+000.1	+000.1	+000.1	+000.1	+000.0
8.75	+000.0	+000.0	+000.0	+000.0	+000.0
10.00	+000.0	+000.1	+000.6	+001.5	+003.0
11.25	<i>T1</i> -005.0	-007.3	-010.0	-012.6	-015.2
12.50	-017.7	<i>T2</i> -020.0	-021.9	-023.6	-024.9
13.75	-025.8	-026.4	-026.8	-026.8	-026.7
15.00	-026.4	-026.0	-025.3	-024.5	-023.8
16.25	-023.0	-022.3	-021.8	-021.4	-021.3
17.50	-021.3	-021.5	-021.9	-022.5	-023.4
18.75	-024.5	-025.6	-026.8	-028.1	-029.4
20.00	-030.7	-031.9	-033.0	-033.9	-034.6
21.25	-035.1	-035.4	-035.5	-035.5	-035.3
22.50	-034.8	-034.3	-033.6	-032.8	-031.8
23.75	-030.8	-029.7	-028.8	-027.8	-027.0
25.00	-026.1	-025.5	-024.8	-024.2	-023.8
26.25	-023.3	-023.0	-022.8	-022.8	-022.8
27.50	-023.1	-023.6	-024.1	-024.8	-025.5
28.75	-026.3	-027.0	-027.7	-028.4	-028.9
30.00	-029.4	-029.6	-029.6	-029.2	-028.4
31.25	-027.0	-025.4	-023.4	-021.1	-018.7
32.50	-016.2	-013.7	-011.5	-009.3	-007.6
33.75	-006.0	-004.8	-003.9	-003.2	-002.9
35.00	-002.8	-002.8	-003.1	-003.3	-003.6
36.25	-003.9	-004.1	-004.2	-004.3	-004.2
37.50	-004.0	-003.7	-003.4	-002.9	-002.5
38.75	-001.8	-001.1	-000.4	+000.4	+001.3
40.00	+002.1	+003.1	+003.9	+004.6	+005.3
41.25	+005.9	+006.4	+006.7	+006.9	+007.0
42.50	+007.0	+006.8	+006.4	+006.0	+005.4
43.75	+004.7	+003.9	+003.0	+002.1	+001.2
45.00	+000.4	-000.2	-000.8	-001.2	-001.5
46.25	-001.7	-001.7	-001.7	-001.5	-001.2
47.50	-001.0	-000.7	-000.3	+000.0	+000.3
48.75	+000.7	+001.2	+001.5	+002.0	+002.3
50.00	+002.6	+002.8	+003.0	+003.1	+003.2
51.25	+003.2	+003.1	+002.9	+002.6	+002.3
52.50	+001.9	+001.4	+000.9	+000.4	+000.0
53.75	-000.3	-000.6	-000.7	-000.9	-000.8
55.00	-000.6	-000.5	-000.3	+000.0	+000.2
56.25	+000.4	+000.7	+001.0	+001.2	+001.4
57.50	+001.5	+001.5	+001.5	+001.5	+001.4
58.75	+001.2	+000.9	+000.7	+000.4	+000.1
60.00	-000.1	-000.3	-000.6	-000.7	-000.9
61.25	-000.9	-000.9	-001.0	-001.0	-000.9
62.50	-000.9	-000.9	-000.9	-000.9	-000.8
63.75	-000.8	-000.7	-000.7	-000.6	-000.6
65.00	-000.6	-000.6	-000.7	-000.8	-000.9
66.25	-001.2	-001.4	-001.5	-001.8	-002.0
67.50	-002.1	-002.3	-002.3	-002.3	-002.2
68.75	-002.1	-002.0	-001.8	-001.6	-001.5
70.00	-001.4	-001.2	-001.2	-001.2	-001.2
71.25	-001.3	-001.4	-001.5	-001.6	-001.7
72.50	-001.8	-001.9	-002.0	-002.0	-002.0
73.75	-001.9	-001.8	-001.7	-001.5	-001.2

VARIABLE	PAX1	TRC006				
75.00	-001.0	-000.7	-000.4	-000.2	+000.0	
76.25	+000.1	+000.4	+000.6	+000.7	+000.8	
77.50	+000.9	+001.0	+001.2	+001.2	+001.2	
78.75	+001.2	+001.2	+001.1	+001.0	+000.8	
80.00	+000.7	+000.5	+000.3	+000.1	+000.0	
81.25	-000.0	-000.1	-000.1	-000.1	-000.0	
82.50	+000.0	+000.1	+000.3	+000.4	+000.6	
83.75	+000.7	+000.7	+000.8	+000.8	+000.8	
85.00	+000.7	+000.7	+000.7	+000.6	+000.6	
86.25	+000.5	+000.4	+000.4	+000.4	+000.4	
87.50	+000.4	+000.4	+000.5	+000.6	+000.6	
88.75	+000.7	+000.8	+000.9	+001.0	+001.1	
90.00	+001.2	+001.3	+001.4	+001.5	+001.6	
91.25	+001.7	+001.8	+001.8	+001.9	+001.9	
92.50	+001.9	+001.8	+001.8	+001.7	+001.6	
93.75	+001.5	+001.3	+001.2	+001.0	+000.8	
95.00	+000.7	+000.6	+000.4	+000.4	+000.4	
96.25	+000.4	+000.4	+000.4	+000.5	+000.6	
97.50	+000.6	+000.7	+000.7	+000.7	+000.6	
98.75	+000.4	+000.3	+000.1	+000.0	-000.2	

3 APR 78
3 yr. old NECK pendulum

TEST # 007

RELEASE HOLE # 9

" hgt. 84 $\frac{3}{4}$ "

HEAD # 31

HEXCELL STANDARD

VELOCITY 17.25 fps

RESULTS

HEXCELL CRUSHED TO 4.0"

RESULTANT 29.2 G

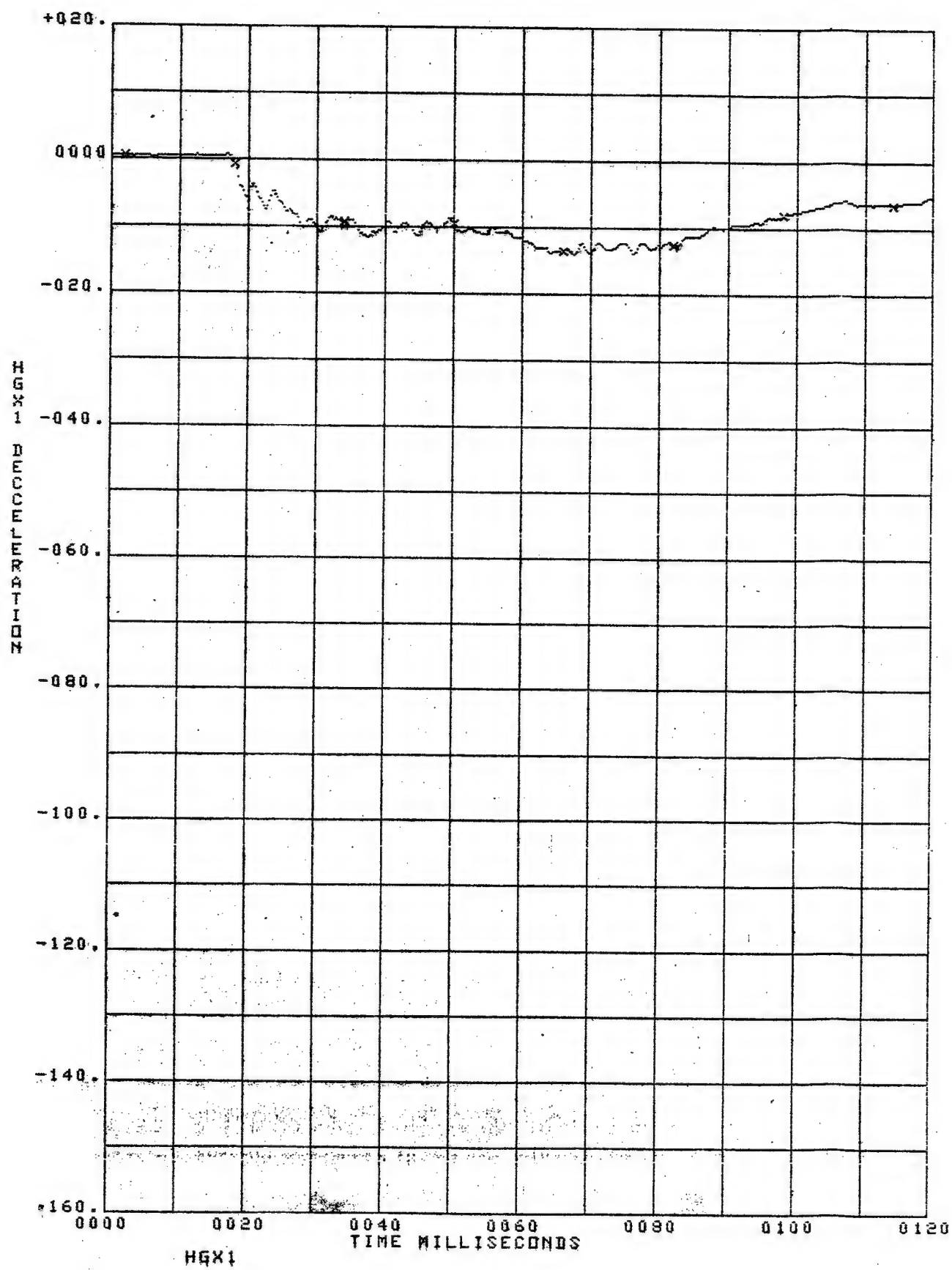
T2 - T1 1.5 ms

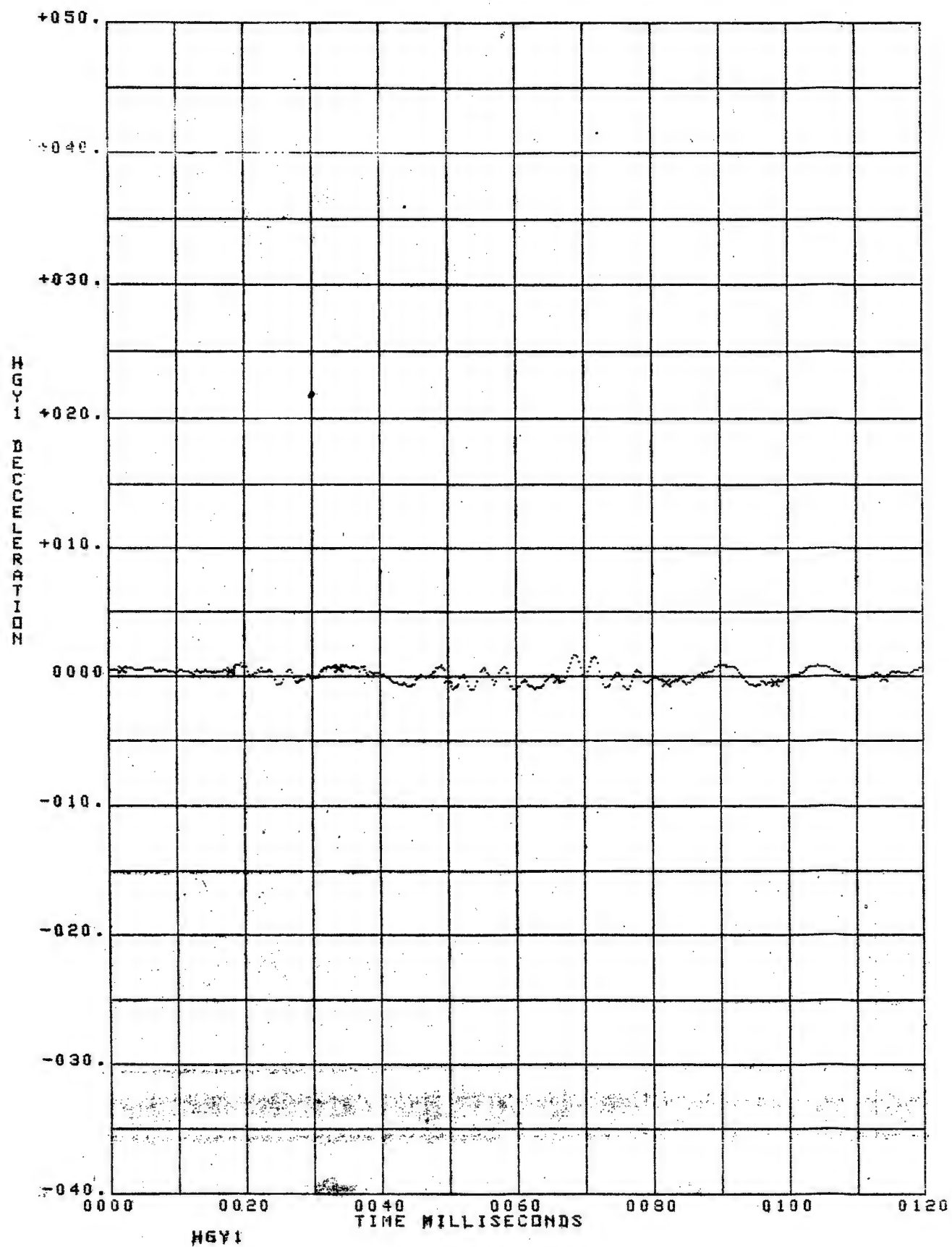
T3 - T2 19.25 ms

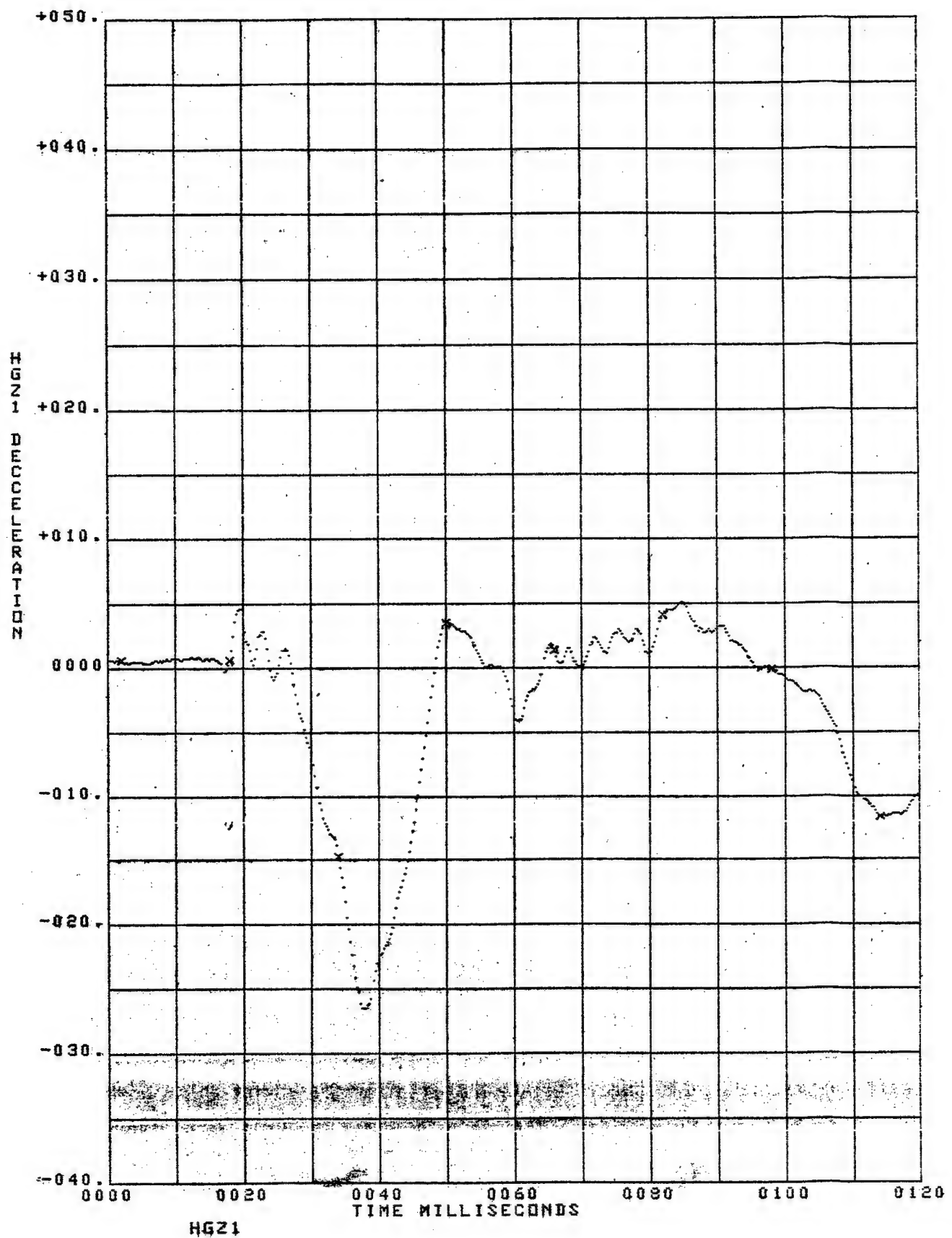
T4 - T3 2.25 ms

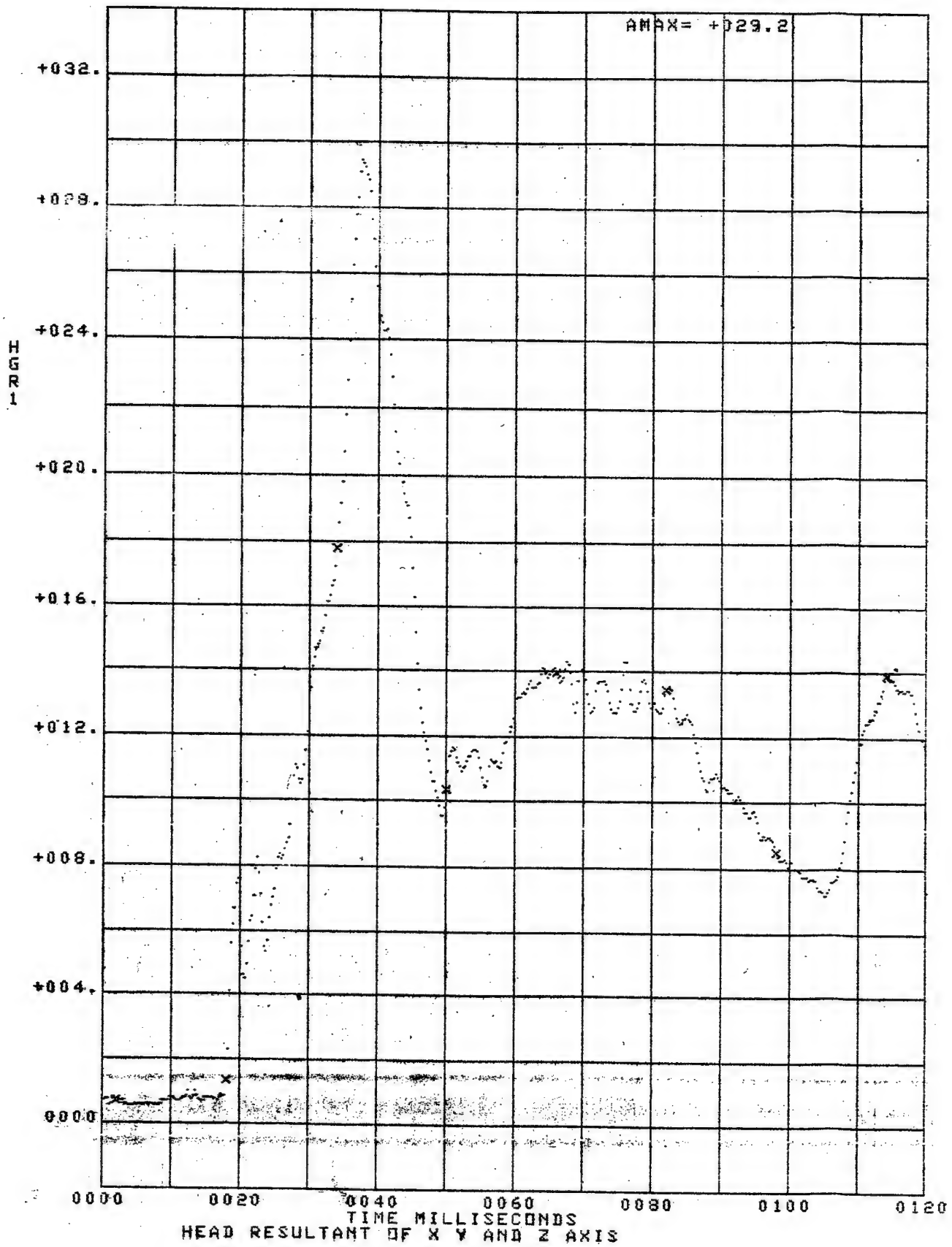
Ave T3-T2 25.9 G

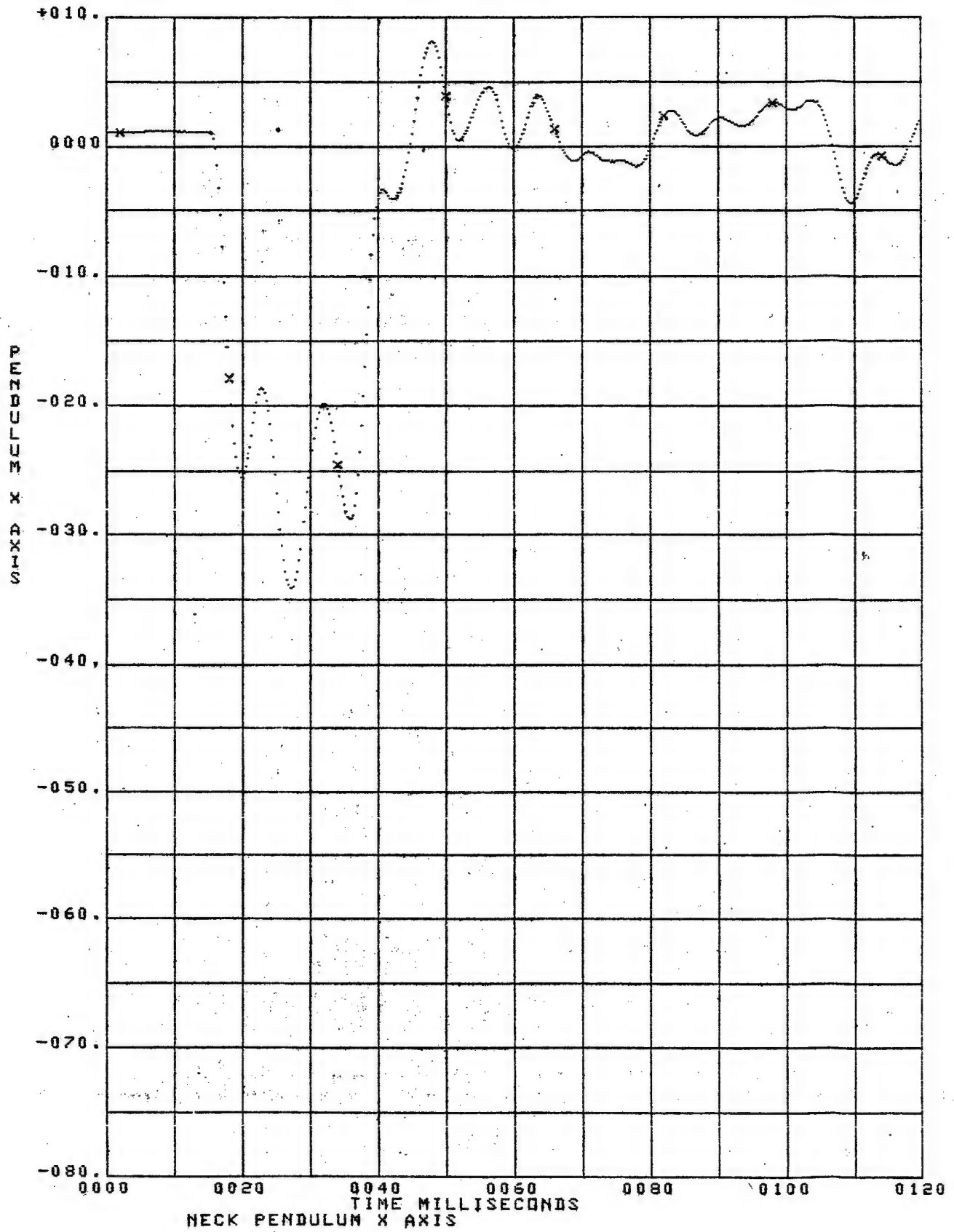
Rotation	Time	Disp
0°	0 ms	0 in.
30°	23	2.55
60°	38	4.46
79°	64	5.51
60°	87	4.19
30°	103	2.48
0°	121	-0.17











VARIABLE PAX1 TRC007

TIME					
0.00	+000.9	+000.9	+000.9	+000.9	+000.9
1.25	+000.9	+000.9	+001.0	+001.0	+001.0
2.50	+001.0	+001.0	+001.0	+001.0	+001.0
3.75	+001.0	+001.0	+001.0	+001.0	+001.0
5.00	+001.0	+001.0	+001.0	+001.0	+001.0
6.25	+001.0	+001.0	+001.0	+001.0	+001.0
7.50	+001.0	+001.0	+001.0	+001.0	+001.0
8.75	+001.0	+001.0	+001.0	+001.0	+001.0
10.00	+001.0	+001.0	+001.0	+001.0	+001.0
11.25	+001.0	+001.0	+001.0	+001.0	+001.0
12.50	+001.0	+001.0	+001.0	+001.0	+001.0
13.75	+001.0	+000.9	+000.9	+000.9	+000.9
15.00	+000.9	+000.9	+000.4	-000.2	-001.6
16.25	-003.3	-005.5	-007.8	-010.5	-013.1
17.50	-015.5	-017.9	-019.8	-021.5	-022.8
18.75	-023.9	-024.7	-025.1	-025.5	-025.4
20.00	-025.1	-024.6	-024.0	-023.2	-022.3
21.25	-021.3	-020.5	-019.8	-019.1	-018.8
22.50	-018.6	-018.7	-019.0	-019.6	-020.4
23.75	-021.3	-022.6	-023.9	-025.2	-026.8
25.00	-028.2	-029.6	-030.9	-032.0	-032.8
26.25	-033.4	-033.8	-034.1	-034.1	-033.9
27.50	-033.4	-032.9	-032.0	-031.1	-030.0
28.75	-028.9	-027.8	-026.7	-025.5	-024.5
30.00	-023.4	-022.4	-021.6	-021.0	-020.5
31.25	-020.1	-019.9	-019.8	-019.9	-020.2
32.50	-020.6	-021.2	-021.9	-022.7	-023.6
33.75	-024.5	-025.4	-026.2	-027.0	-027.6
35.00	-028.1	-028.5	-028.7	-028.7	-028.4
36.25	-027.8	-026.7	-025.2	-023.5	-021.5
37.50	-019.3	-016.9	-014.6	-012.4	-010.3
38.75	-008.5	-006.9	-005.7	-004.7	-004.1
40.00	-003.6	-003.5	-003.5	-003.6	-003.7
41.25	-003.9	-004.0	-004.1	-004.1	-004.1
42.50	-003.9	-003.7	-003.3	-003.0	-002.5
43.75	-001.9	-001.3	-000.6	+000.0	+000.9
45.00	+001.3	+002.6	+003.6	+004.4	+005.3
46.25	+005.9	+006.6	+007.1	+007.5	+007.8
47.50	+007.9	+007.9	+007.8	+007.5	+007.2
48.75	+006.6	+005.9	+005.3	+004.4	+003.7
50.00	+002.9	+002.3	+001.7	+001.1	+000.7
51.25	+000.4	+000.3	+000.3	+000.4	+000.6
52.50	+000.8	+001.1	+001.4	+001.7	+002.0
53.75	+002.4	+002.7	+003.1	+003.4	+003.7
55.00	+003.9	+004.1	+004.3	+004.3	+004.4
56.25	+004.4	+004.3	+004.1	+003.8	+003.4
57.50	+002.9	+002.4	+001.8	+001.3	+000.8
58.75	+000.4	+000.1	-000.0	-000.2	-000.2
60.00	-000.1	-000.6	+000.1	+000.4	+000.7
61.25	+001.2	+001.6	+002.0	+002.5	+002.9
62.50	+003.2	+003.5	+003.6	+003.7	+003.7
63.75	+003.6	+003.4	+003.1	+002.8	+002.5
65.00	+002.2	+001.9	+001.6	+001.2	+000.9
66.25	+000.5	+000.2	-000.0	-000.3	-000.6
67.50	-000.8	-000.9	-001.1	-001.1	-001.2
68.75	-001.2	-001.1	-001.0	-001.0	-000.8
70.00	-000.7	-000.6	-000.5	-000.5	-000.5
71.25	-000.6	-000.7	-000.8	-000.8	-000.9
72.50	-001.0	-001.1	-001.1	-001.2	-001.2
73.75	-001.2	-001.3	-001.2	-001.3	-001.2

VARIABLE	PAX1	TRC007				
75.00	-001.2	-001.2	-001.2	-001.2	-001.2	-001.2
76.25	-001.3	-001.3	-001.4	-001.4	-001.5	-001.5
77.50	-001.6	-001.6	-001.6	-001.5	-001.4	-001.4
78.75	-001.3	-001.0	-000.8	-000.5	-000.2	-000.2
80.00	+000.1	+000.4	+000.8	+001.1	+001.4	+001.4
81.25	+001.7	+001.9	+002.1	+002.3	+002.5	+002.5
82.50	+002.5	+002.6	+002.6	+002.5	+002.5	+002.5
83.75	+002.3	+002.1	+002.0	+001.7	+001.5	+001.5
85.00	+001.4	+001.1	+001.0	+000.8	+000.7	+000.7
86.25	+000.7	+000.6	+000.7	+000.7	+000.8	+000.8
87.50	+000.9	+001.0	+001.2	+001.4	+001.5	+001.5
88.75	+001.7	+001.8	+001.9	+002.0	+002.0	+002.0
90.00	+002.0	+002.0	+002.0	+002.0	+001.9	+001.9
91.25	+001.8	+001.8	+001.7	+001.7	+001.6	+001.6
92.50	+001.5	+001.5	+001.5	+001.4	+001.4	+001.4
93.75	+001.5	+001.5	+001.6	+001.7	+001.8	+001.8
95.00	+001.9	+002.1	+002.2	+002.4	+002.5	+002.5
96.25	+002.6	+002.8	+002.9	+003.0	+003.1	+003.1
97.50	+003.2	+003.2	+003.2	+003.2	+003.1	+003.1
98.75	+003.1	+003.0	+002.9	+002.8	+002.8	+002.8
100.00	+002.7	+002.6	+002.6	+002.6	+002.6	+002.6
101.25	+002.7	+002.8	+002.8	+002.9	+003.1	+003.1
102.50	+003.2	+003.2	+003.3	+003.3	+003.3	+003.3
103.75	+003.3	+003.2	+003.1	+002.9	+002.8	+002.8
105.00	+002.5	+002.2	+001.8	+001.5	+001.0	+001.0
106.25	+000.5	+000.0	-000.5	-001.1	-001.6	-001.6
107.50	-002.2	-002.7	-003.3	-003.6	-004.0	-004.0
108.75	-004.3	-004.4	-004.5	-004.4	-004.3	-004.3
110.00	-004.1	-003.8	-003.4	-003.0	-002.6	-002.6
111.25	-002.2	-001.8	-001.5	-001.3	-001.0	-001.0
112.50	-000.8	-000.7	-000.7	-000.7	-000.7	-000.7
113.75	-000.8	-000.9	-001.0	-001.1	-001.3	-001.3
115.00	-001.4	-001.4	-001.5	-001.5	-001.5	-001.5
116.25	-001.4	-001.3	-001.1	-000.9	-000.7	-000.7
117.50	-000.3	-000.0	+000.2	+000.6	+000.9	+000.9
118.75	+001.2	+001.5	+001.8	+002.0	+000.0	+000.0

3 APR 78

3 yr. old NECK pendulum

TEST # 009

RELEASE HOLE # 9

" hgt. 84 $\frac{3}{4}$ "

HEAD # 31

HEXCELL standard

Velocity 17.25 fps

RESULTS

HEXCELL CRUSHED TO 4.0"

RESULTANT 29.4 G

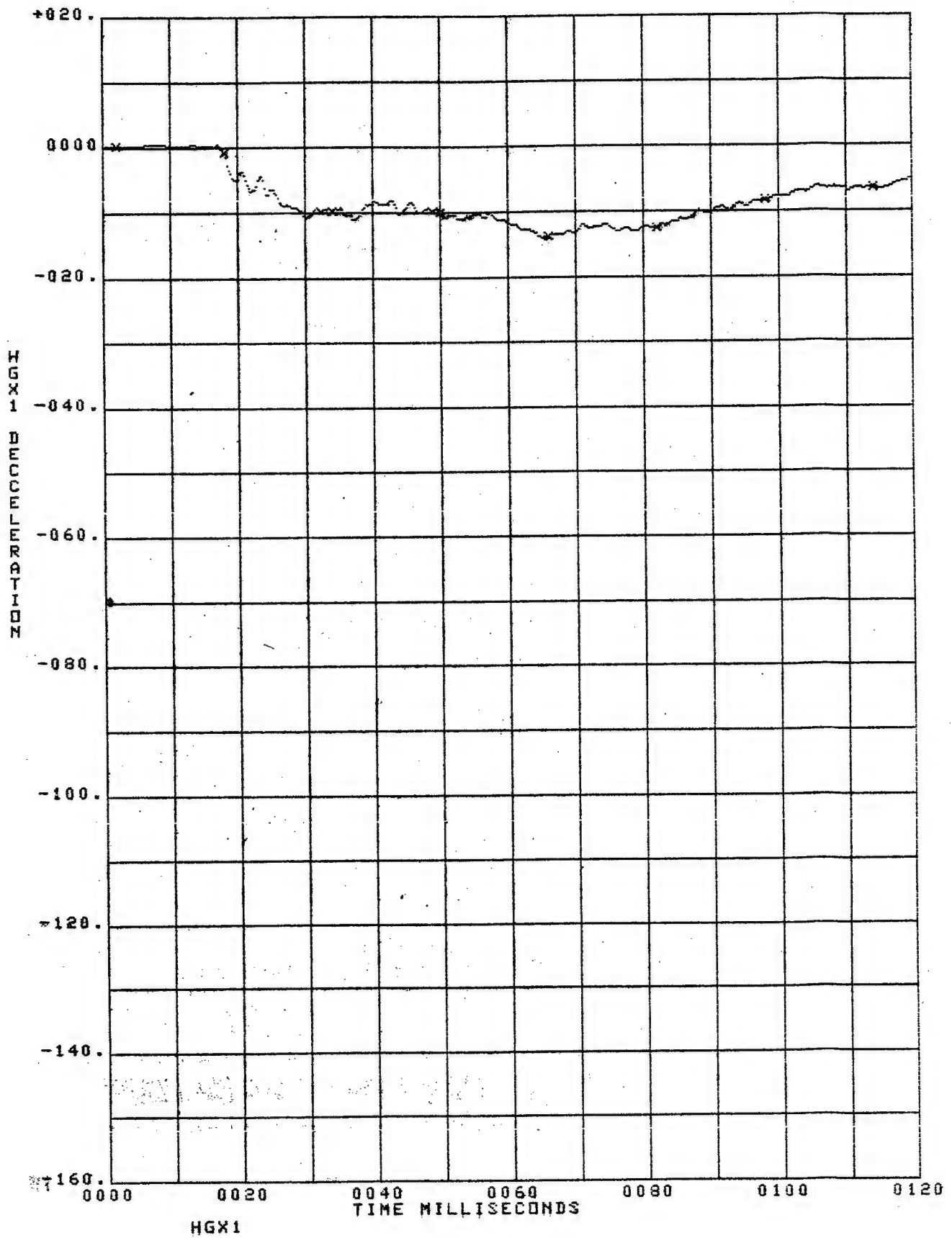
T2 - T1 1.5 MN

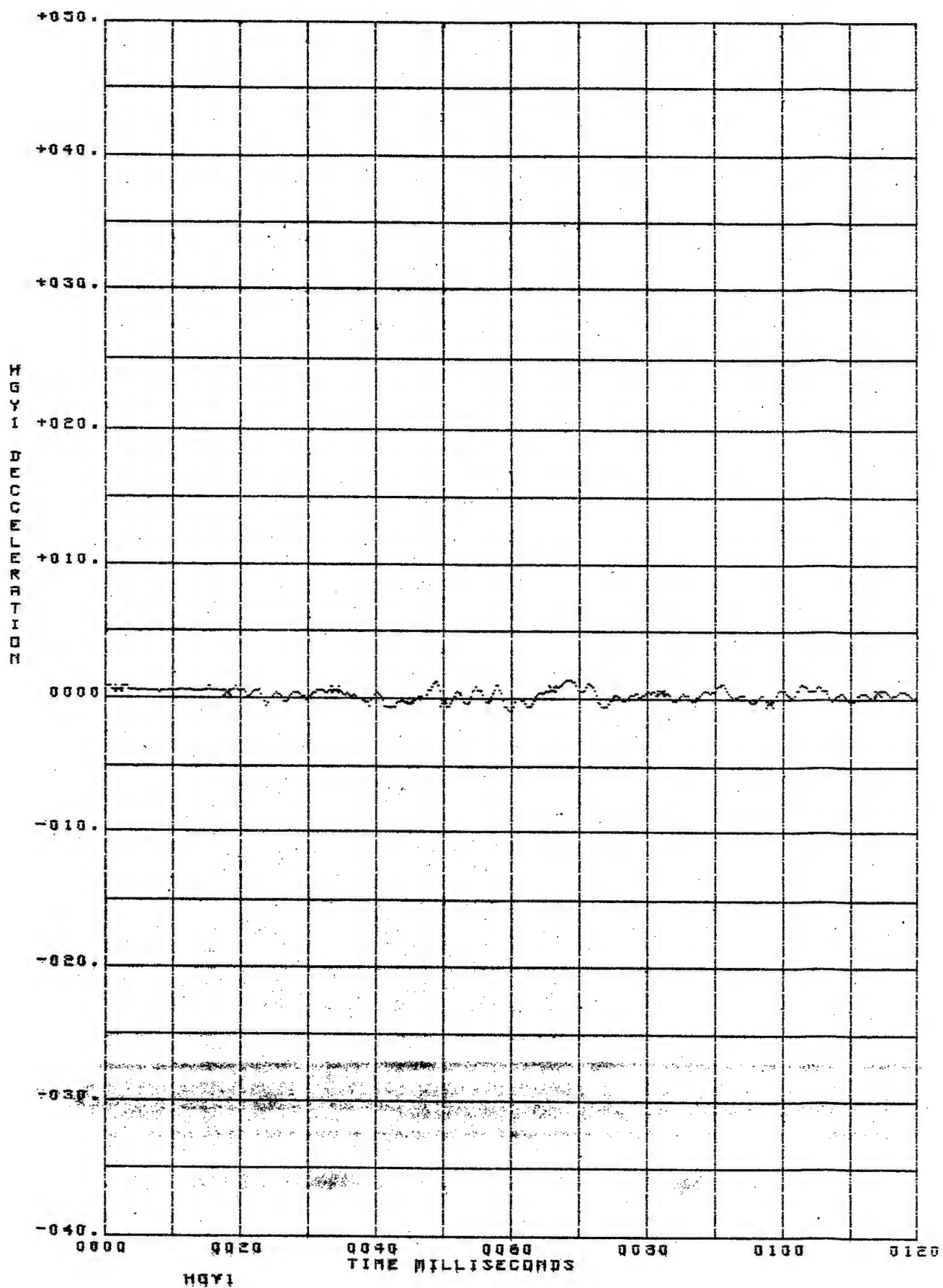
T3 - T2 19.5 MN

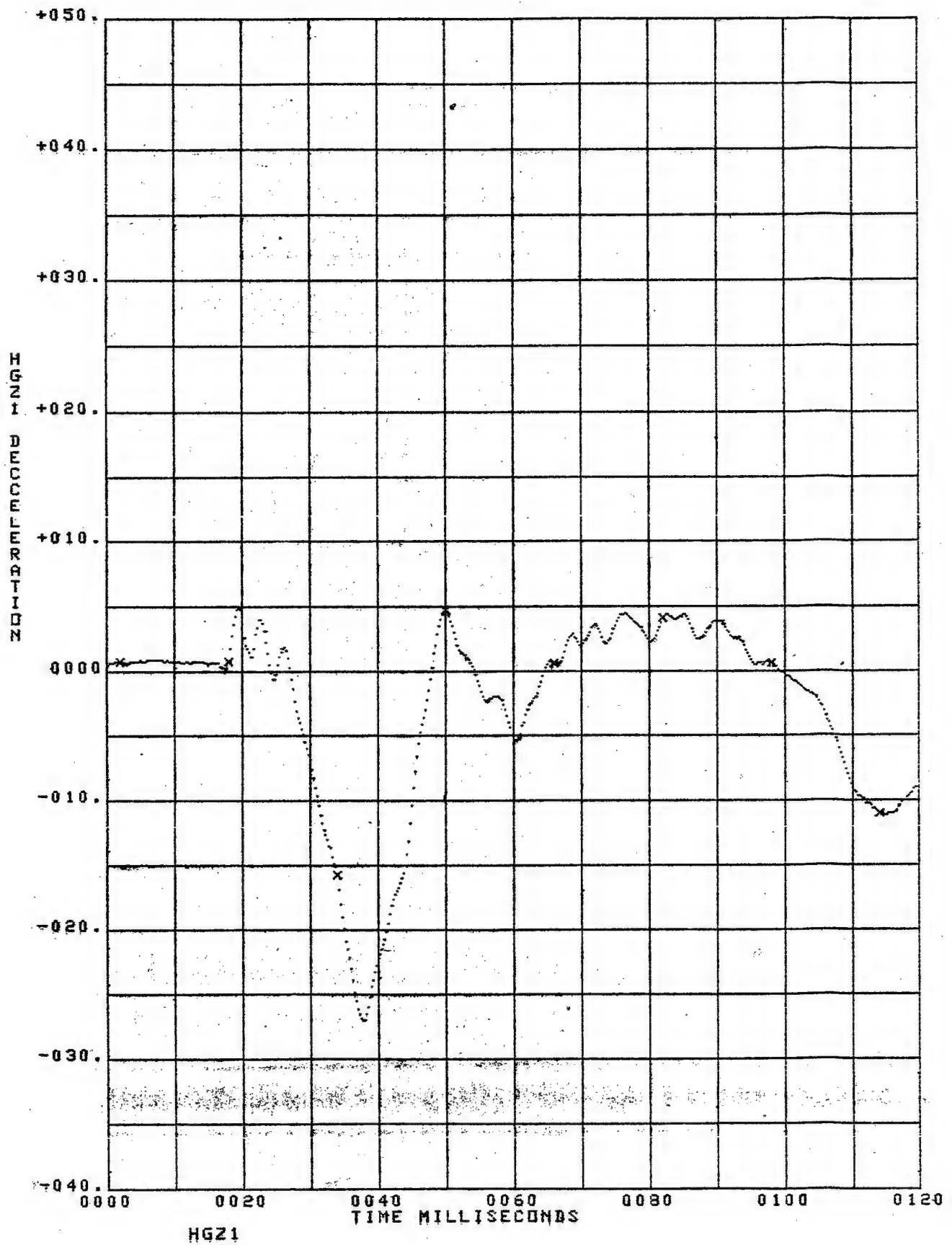
T4 - T3 2.5 MN

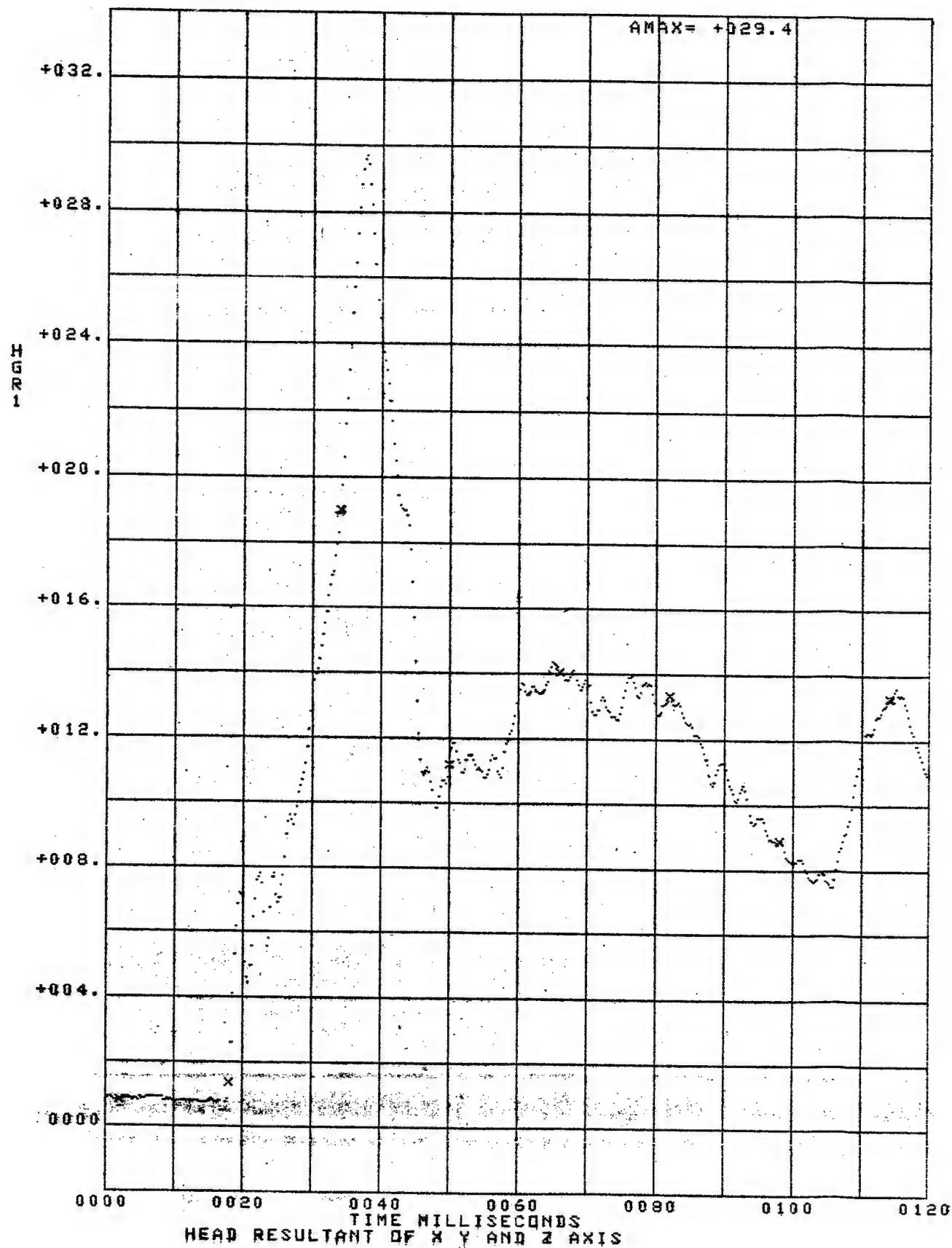
Ave T3-T2 26.1 G

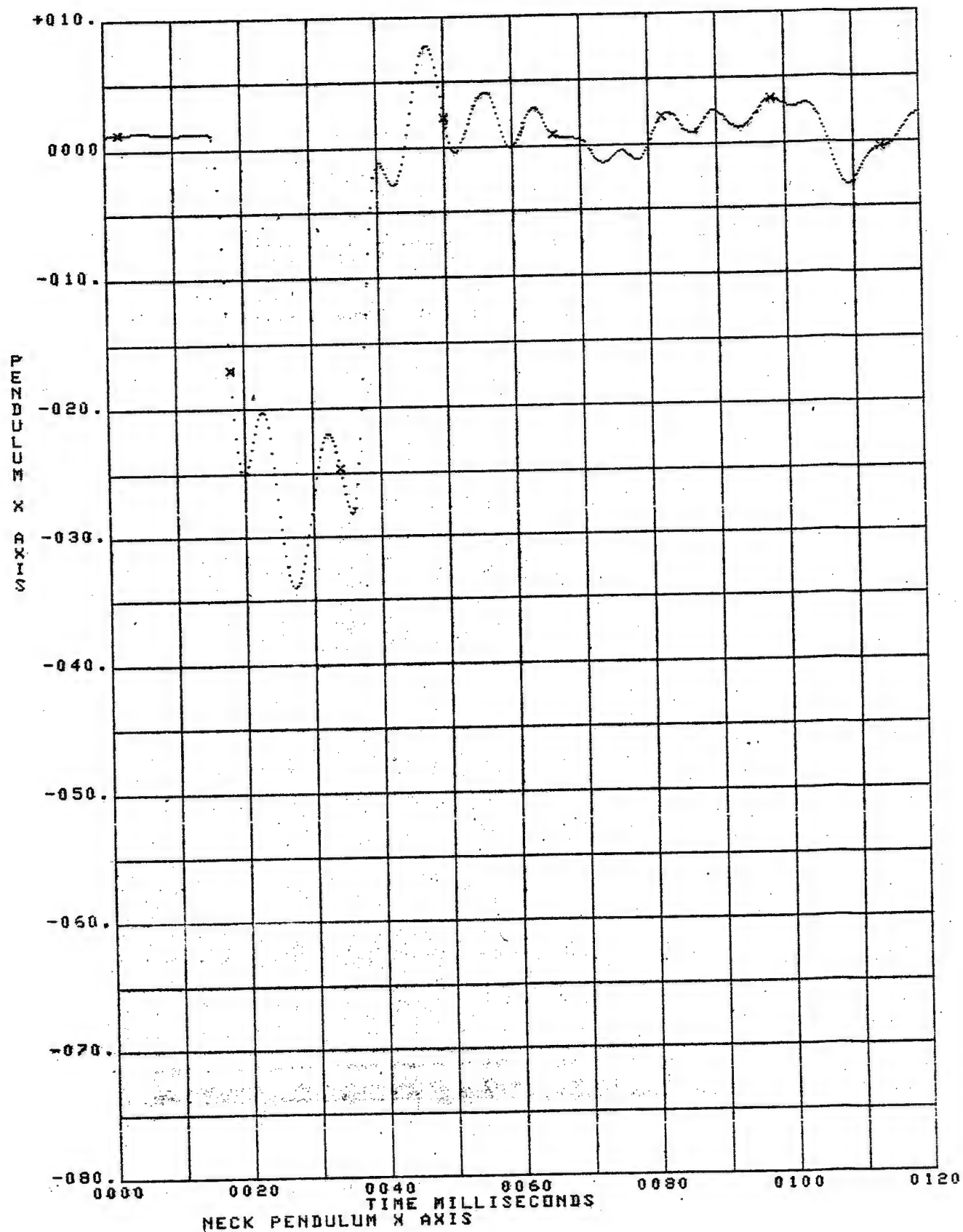
Rotation	Time	Disp
0°	0 MN	0 in
30°	23	2.25
60°	38	4.26
77°	62	5.69
60°	91	4.26
30°	109	2.25
0°	124	0











23 MAR 78

3 yr. old NECK pendulum

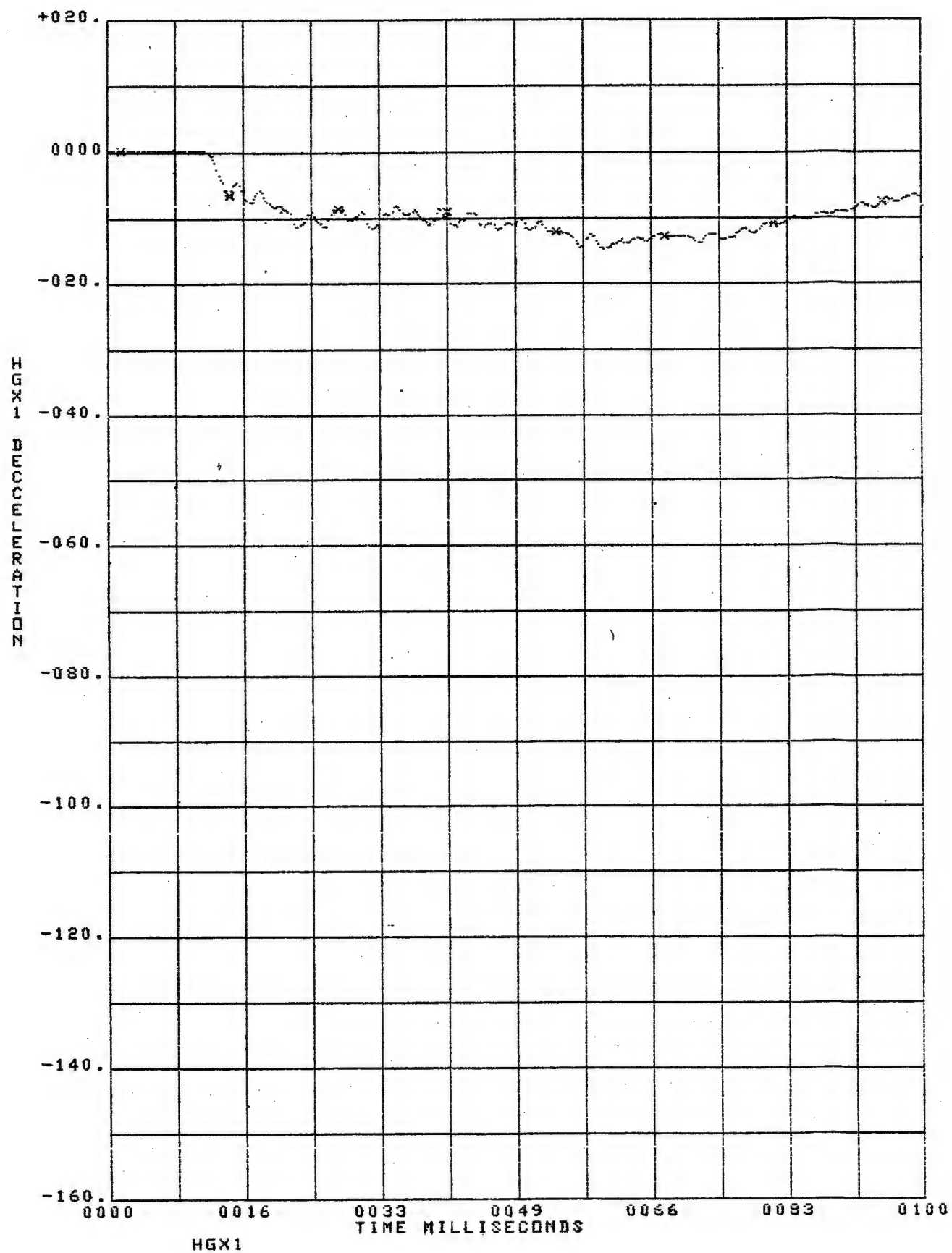
Test # 004

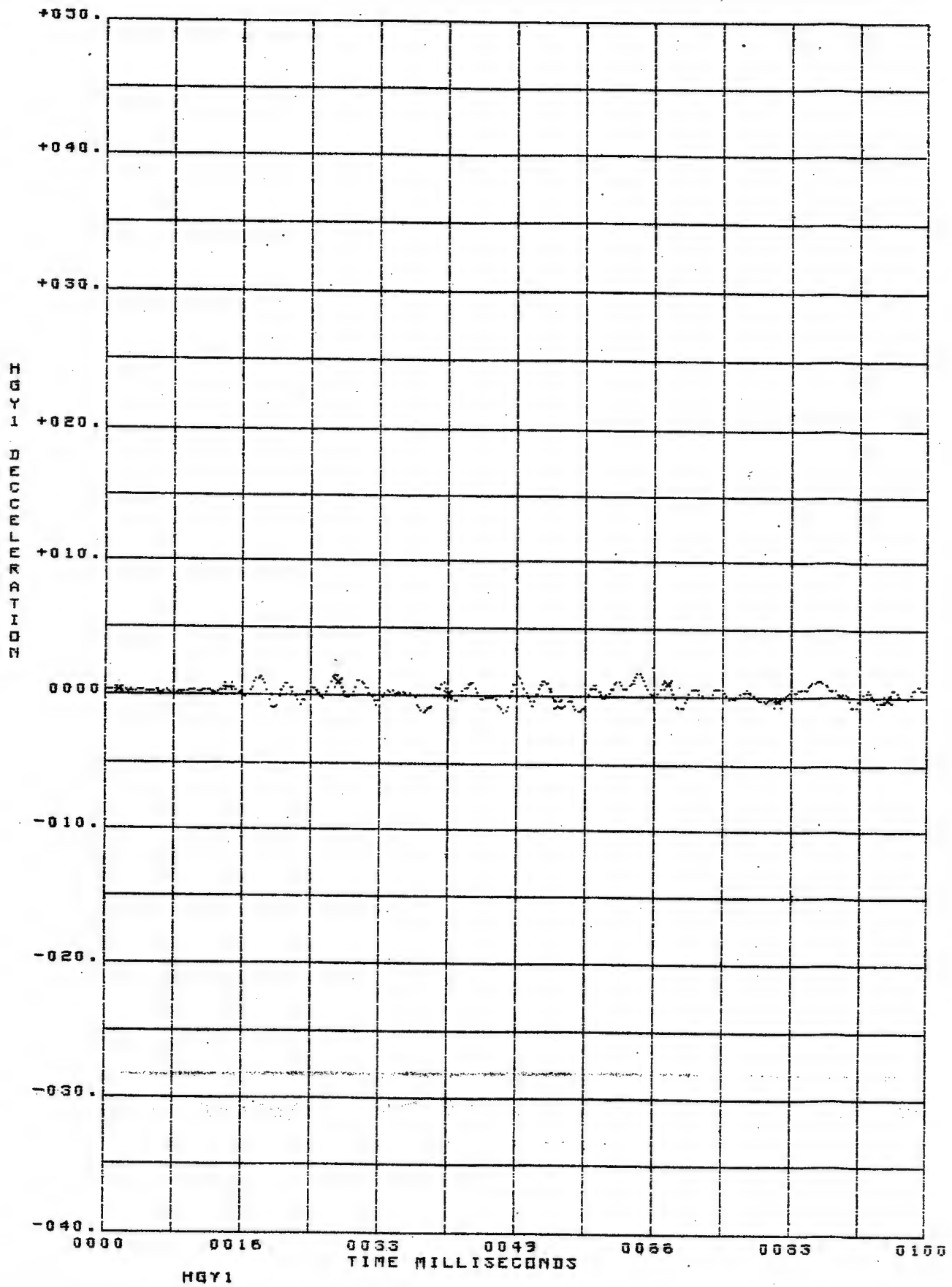
RELEASE hole # = 9
" hgt. 84 $\frac{3}{4}$ "
HEAD # = 32
HEXCELL STANDARD
VELOCITY 17.25 fps

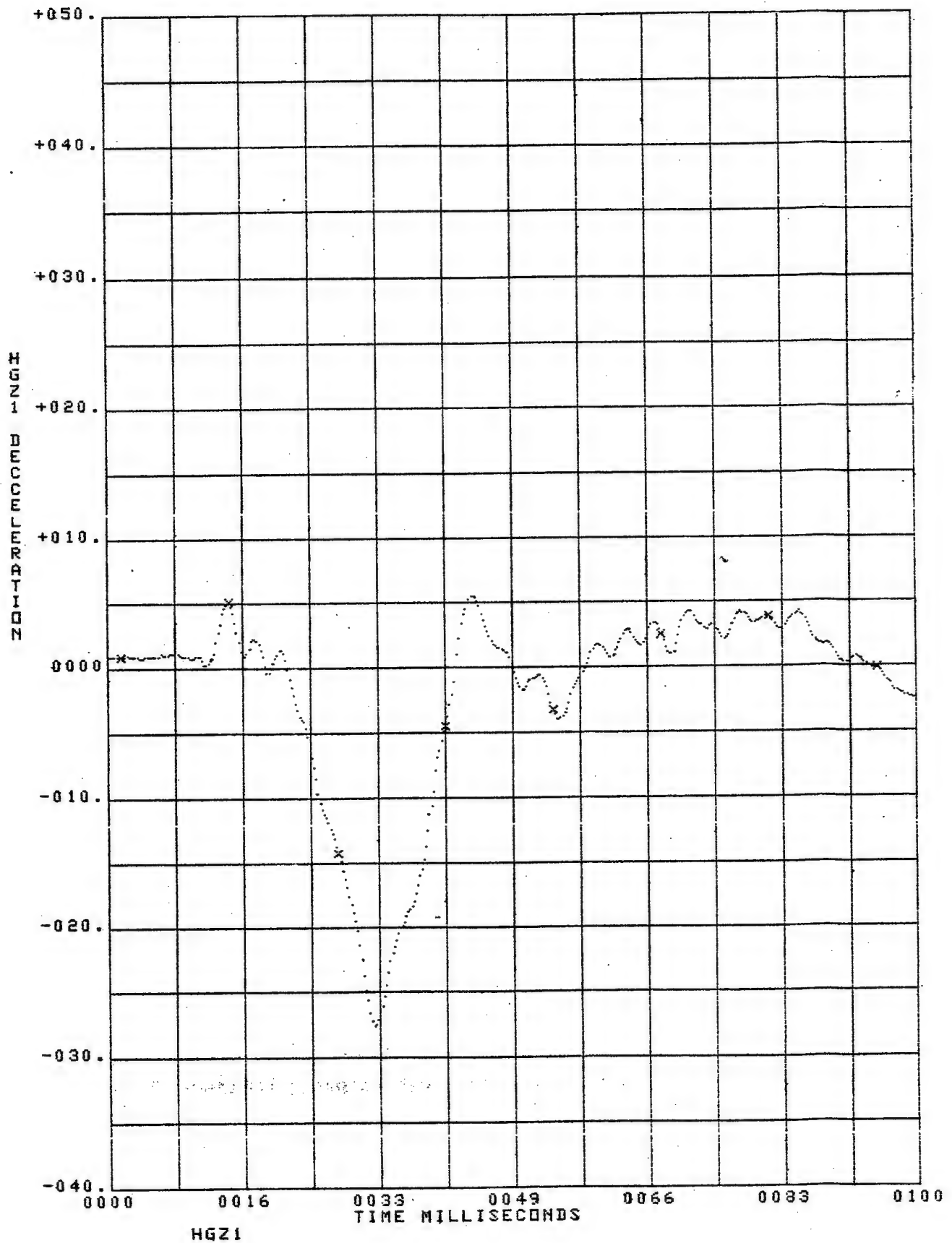
RESULTS

HEXCELL CRUSHED TO 4.0"
RESULTANT 30.2 G
T2 - T1 1.5 ms
T3 - T2 17.25 ms
T4 - T3 2.0 ms
AVE T3-T2 26.4 G

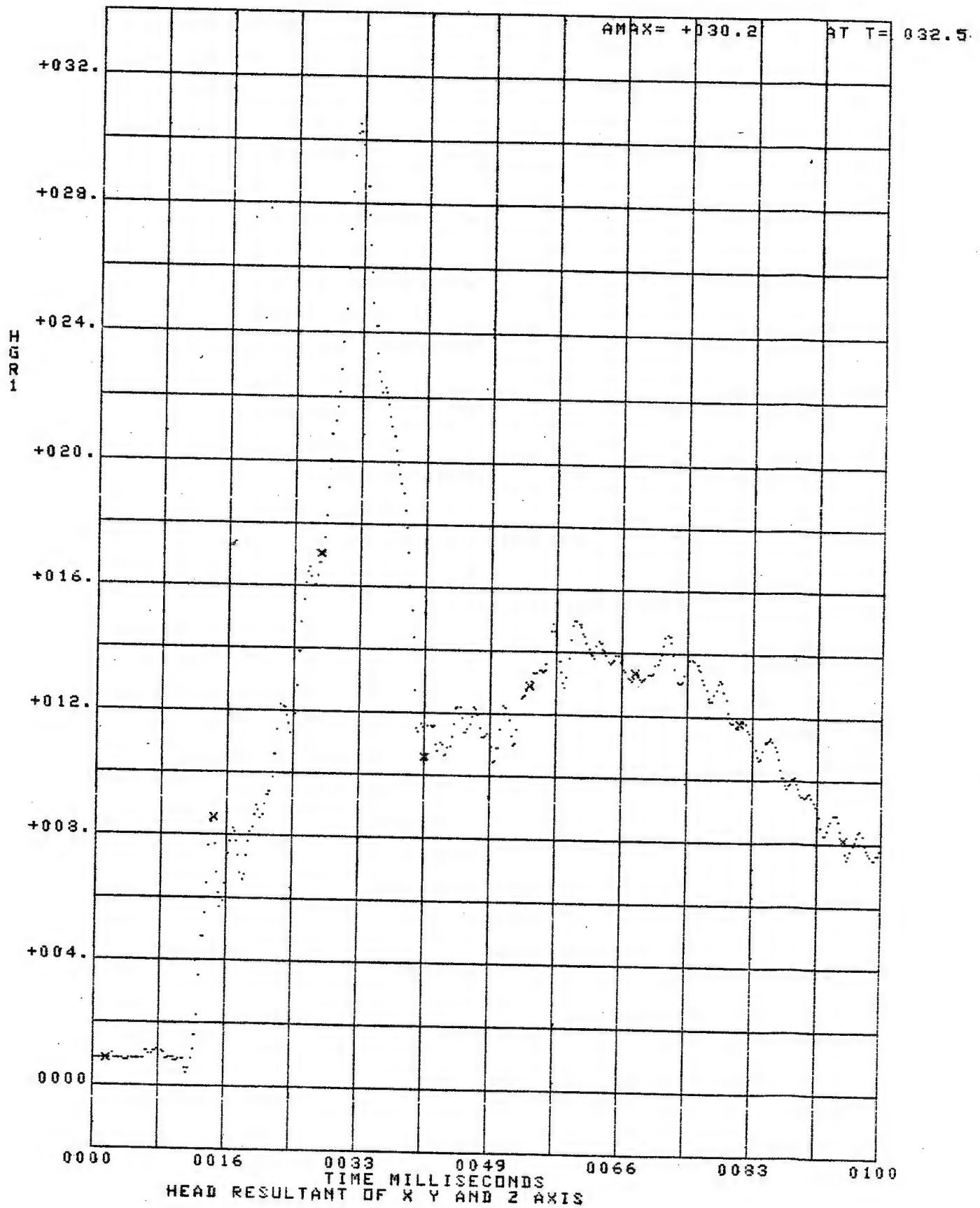
Rotation	Time	Disp
0°	0 ms	0 in.
30°	20	1.81
60°	34	3.74
80°	58	5.28
60°	87	4.19
30°	107	2.14
0°	123	0.08

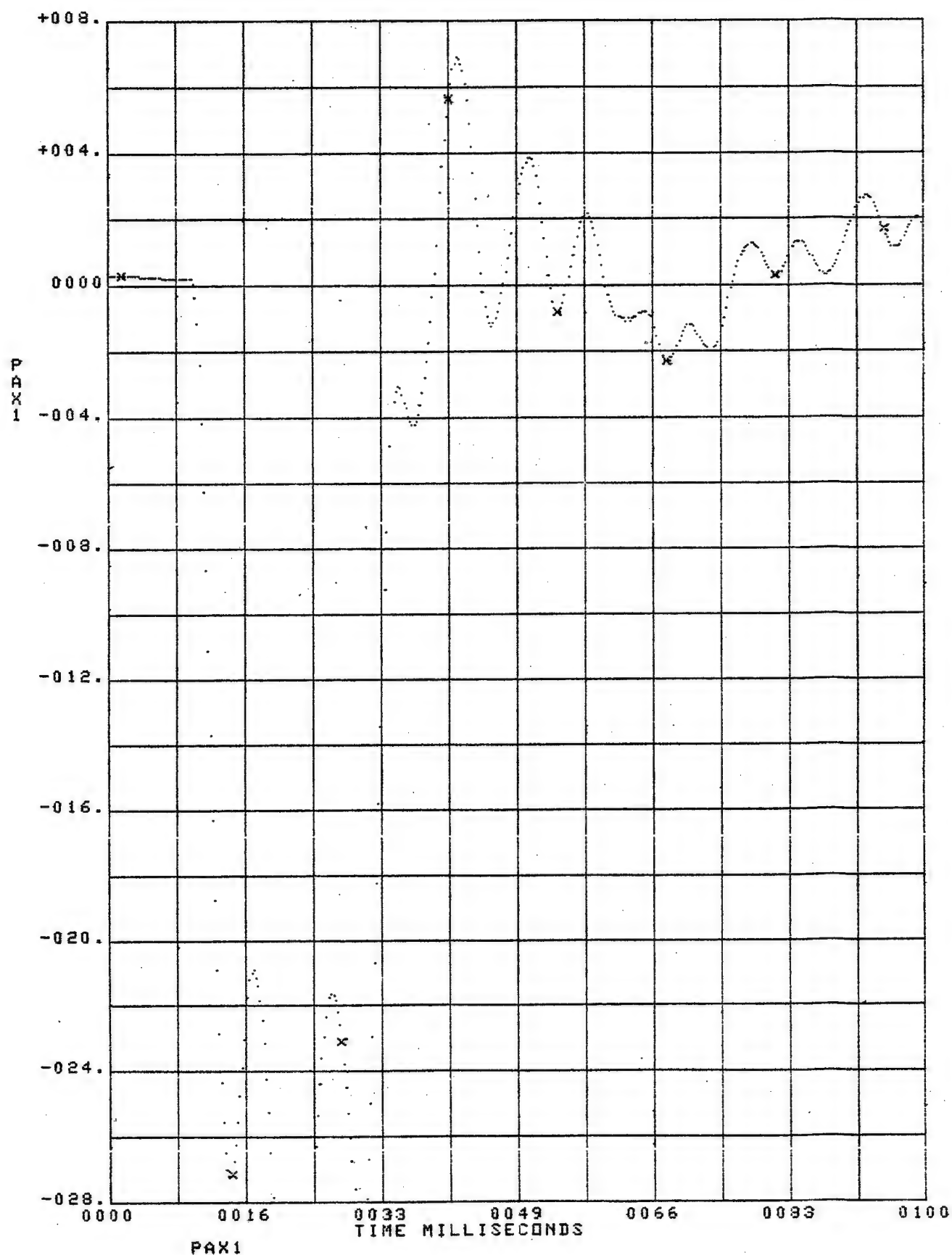






NECK PENEULUM
TRC NO. 004





VARIABLE PAX1 TRC004

TIME					
0.00	+000.1	+000.1	+000.1	+000.1	+000.1
1.25	+000.1	+000.1	+000.1	+000.1	+000.1
2.50	+000.1	+000.1	+000.1	+000.1	+000.1
3.75	+000.0	+000.0	+000.0	+000.0	+000.0
5.00	+000.0	+000.0	+000.0	+000.0	+000.0
6.25	+000.0	+000.0	+000.0	+000.0	+000.0
7.50	+000.0	+000.0	+000.0	+000.0	+000.0
8.75	+000.0	+000.0	+000.0	+000.0	+000.0
10.00	+000.0	+000.0	+000.0	+000.0	+000.0
11.25	-004.3	<i>T</i> -006.5	-008.9	-011.4	-014.0
12.50	-016.7	-019.1	^{13.00} -021.1	-023.0	-024.5
13.75	-025.6	-026.6	<i>T2</i> -027.0	-027.2	-027.2
15.00	-026.8	-026.3	-025.6	-024.9	-024.1
16.25	-023.2	-022.7	-022.0	-021.4	-021.3
17.50	-021.1	-021.4	-021.6	-022.0	-022.7
18.75	-023.3	-024.4	-025.3	-026.6	-027.8
20.00	-029.1	-030.5	-031.7	-032.8	-033.8
21.25	-034.6	-035.2	-035.5	-035.7	-035.5
22.50	-035.1	-034.6	-033.8	-033.0	-032.2
23.75	-031.3	-030.3	-029.4	-028.4	-027.5
25.00	-026.4	-025.5	-024.5	-023.8	-023.1
26.25	-022.5	-022.2	-022.0	-021.9	-021.9
27.50	-022.0	-022.4	-022.8	-023.3	-023.9
28.75	-024.6	-025.4	-026.1	-026.8	-027.6
30.00	-028.1	-028.7	-029.0	-029.0	-028.7
31.25	-027.9	-026.7	-025.1	-023.1	-020.9
32.50	-018.6	-016.2	-013.8	-011.5	-009.5
33.75	-007.8	-006.2	<i>T4</i> -005.1	-004.2	-003.7
35.00	-003.4	-003.2	-003.3	-003.5	-003.7
36.25	-003.9	-004.2	-004.3	-004.4	-004.4
37.50	-004.3	-004.1	-003.8	-003.4	-003.0
38.75	-002.5	-001.9	-001.2	-000.5	+000.1
40.00	+001.0	+001.8	+002.6	+003.4	+004.2
41.25	+005.0	+005.5	+006.0	+006.4	+006.6
42.50	+006.8	+006.7	+006.6	+006.4	+006.0
43.75	+005.4	+004.8	+004.0	+003.2	+002.4
45.00	+001.6	+000.8	+000.1	-000.3	-000.8
46.25	-001.1	-001.3	-001.4	-001.3	-001.2
47.50	-000.9	-000.7	-000.4	-000.1	+000.2
48.75	+000.6	+001.0	+001.4	+001.8	+002.2
50.00	+002.6	+002.9	+003.2	+003.4	+003.6
51.25	+003.7	+003.7	+003.6	+003.4	+003.1
52.50	+002.8	+002.3	+001.7	+001.2	+000.6
53.75	+000.1	-000.3	-000.6	-000.9	-000.9
55.00	-000.9	-000.9	-000.7	-000.4	-000.1
56.25	+000.0	+000.3	+000.7	+000.9	+001.2
57.50	+001.5	+001.7	+001.8	+002.0	+002.0
58.75	+001.8	+001.7	+001.5	+001.3	+001.0
60.00	+000.7	+000.4	+000.0	-000.2	-000.4
61.25	-000.6	-000.8	-000.9	-001.0	-001.1
62.50	-001.1	-001.2	-001.2	-001.2	-001.2
63.75	-001.2	-001.2	-001.1	-001.1	-001.0
65.00	-001.0	-000.9	-000.9	-000.9	-001.0
66.25	-001.1	-001.3	-001.5	-001.7	-002.0
67.50	-002.1	-002.3	-002.5	-002.5	-002.5
68.75	-002.4	-002.3	-002.1	-002.0	-001.8
70.00	-001.7	-001.5	-001.5	-001.4	-001.4
71.25	-001.4	-001.4	-001.5	-001.7	-001.8
72.50	-001.8	-002.0	-002.0	-002.1	-002.1
73.75	-002.1	-002.1	-002.0	-001.9	-001.7

VARIABLE	PAX1	TRC004				
75.00	-001.4	-001.2	-000.9	-000.6	-000.3	
76.25	-000.0	+000.1	+000.3	+000.5	+000.7	
77.50	+000.8	+000.9	+000.9	+001.0	+001.0	
78.75	+001.0	+001.0	+000.9	+000.9	+000.7	
80.00	+000.6	+000.5	+000.4	+000.3	+000.2	
81.25	+000.1	+000.1	+000.1	+000.1	+000.2	
82.50	+000.3	+000.4	+000.6	+000.8	+000.9	
83.75	+001.0	+001.1	+001.1	+001.1	+001.1	
85.00	+001.0	+000.9	+000.8	+000.7	+000.6	
86.25	+000.5	+000.4	+000.3	+000.2	+000.1	
87.50	+000.1	+000.1	+000.1	+000.2	+000.3	
88.75	+000.4	+000.5	+000.7	+000.8	+001.0	
90.00	+001.2	+001.4	+001.6	+001.7	+001.9	
91.25	+002.1	+002.2	+002.3	+002.4	+002.4	
92.50	+002.5	+002.5	+002.5	+002.4	+002.3	
93.75	+002.1	+002.0	+001.8	+001.7	+001.5	
95.00	+001.3	+001.2	+001.0	+000.9	+000.9	
96.25	+000.9	+000.9	+001.0	+001.1	+001.2	
97.50	+001.4	+001.5	+001.6	+001.7	+001.8	
98.75	+001.8	+001.8	+001.8	+001.7	+001.5	

24 MAR. 78
3 yr. old neck pendulum

Test # 005

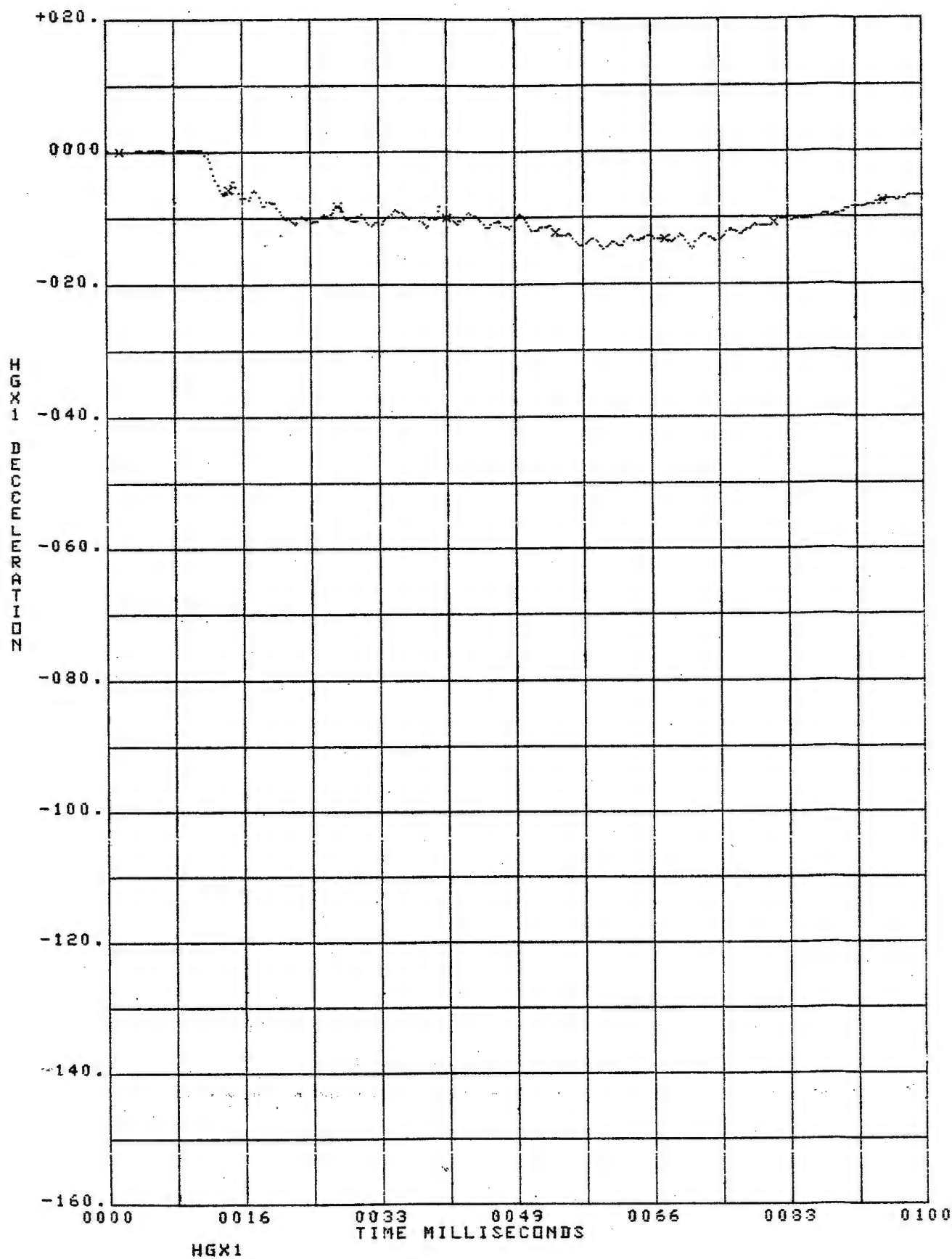
RELEASE HOLE # 9
" hgt. 84 3/4"
HEAD # 32
HEXCELL STANDARD
VELOCITY 17.25 fps

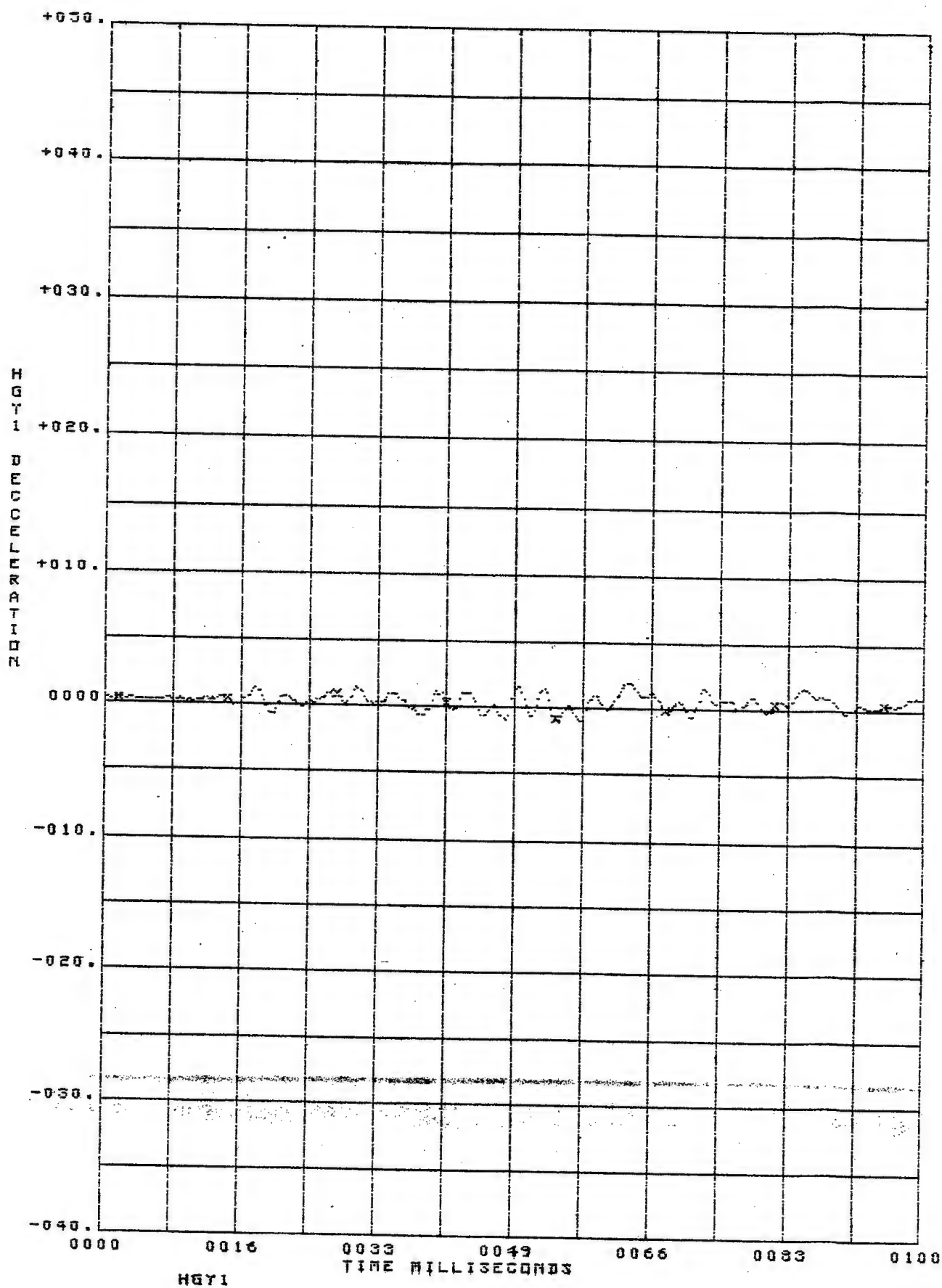
RESULTS

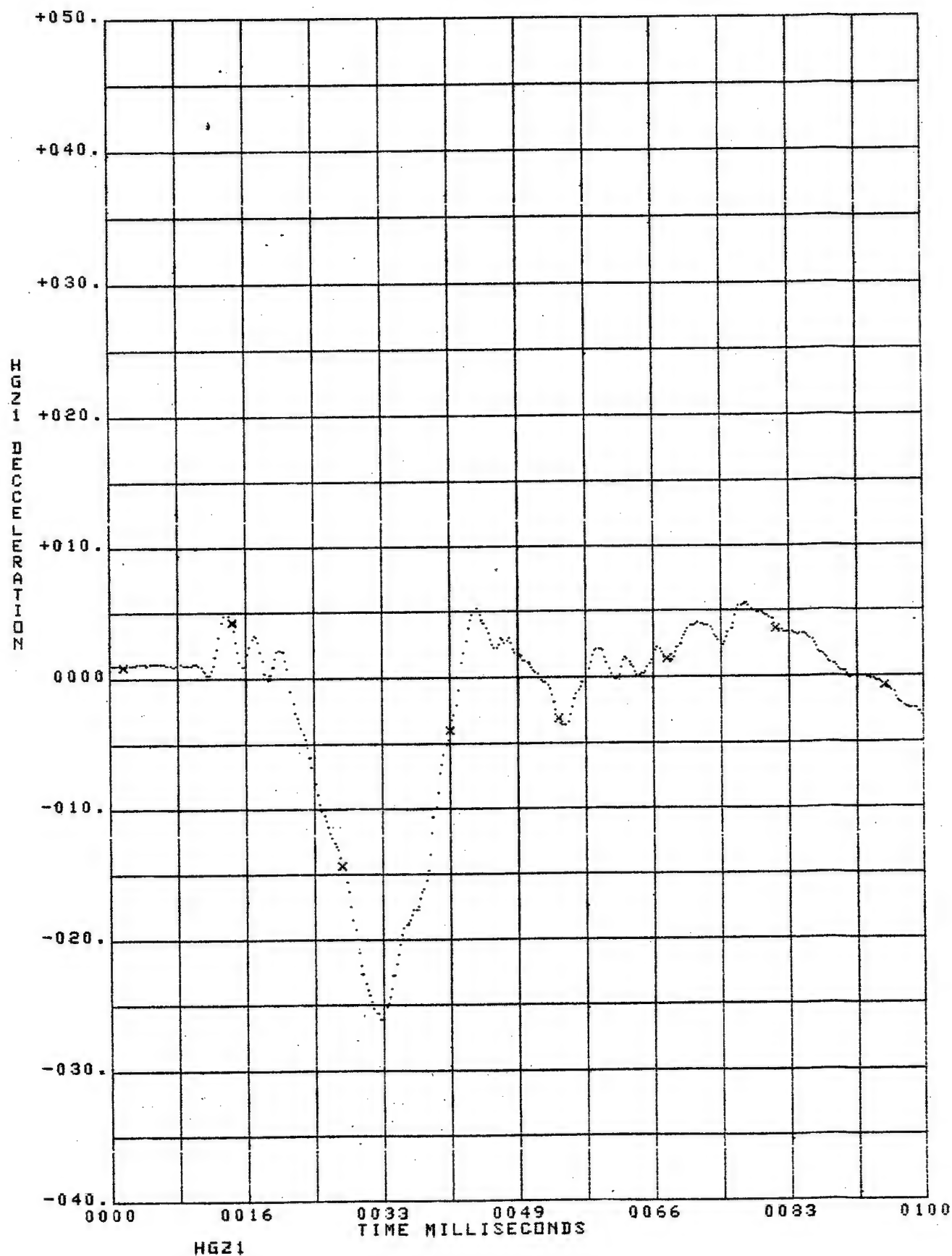
HEXCELL CRUSHED TO 4.0"
RESULTANT 28.6 G
T2 - T1 1.5 ms
T3 - T2 19.75"
T4 - T3 2.5"
AVE T3-T2 26.0 G

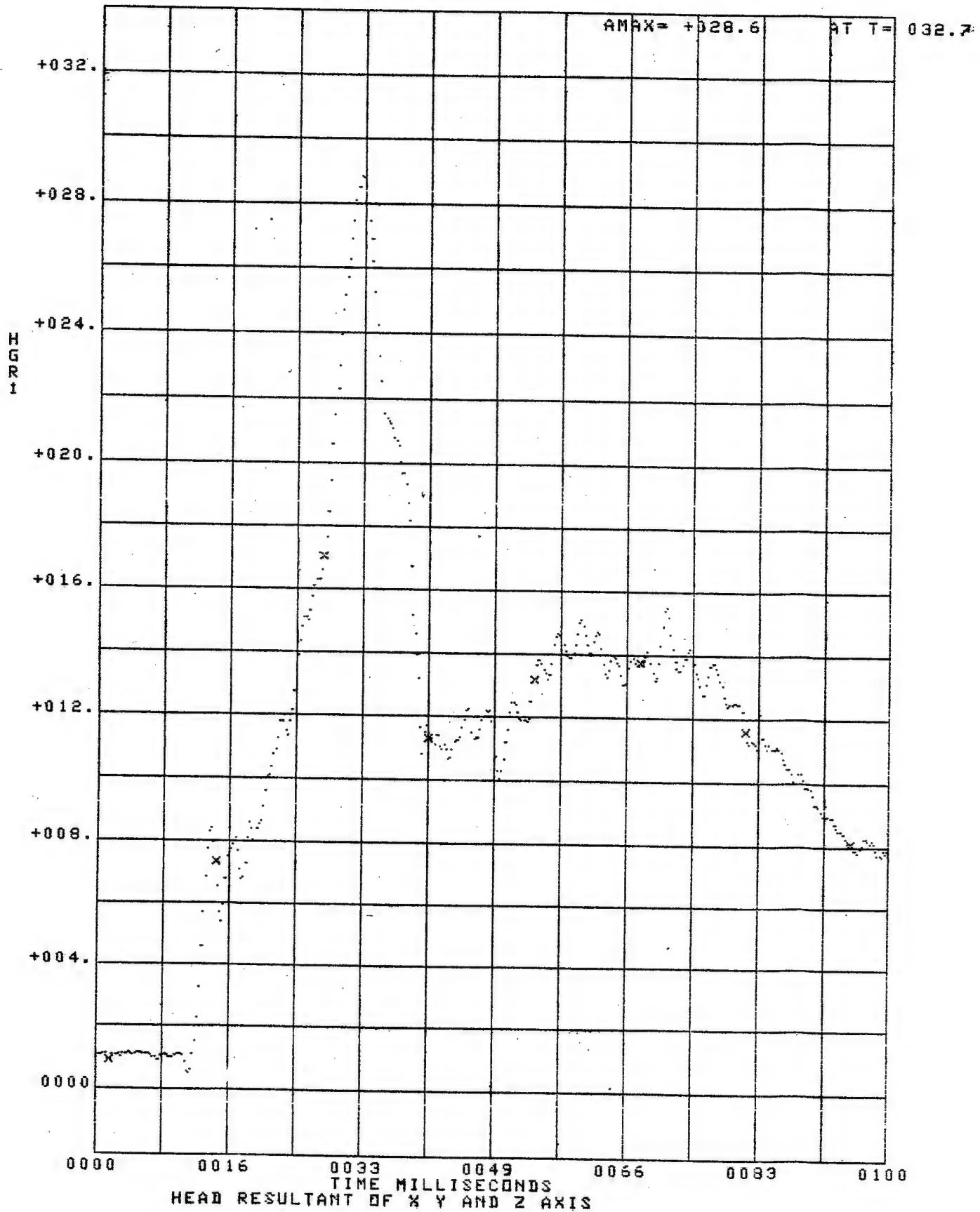
Rotation Time Disp

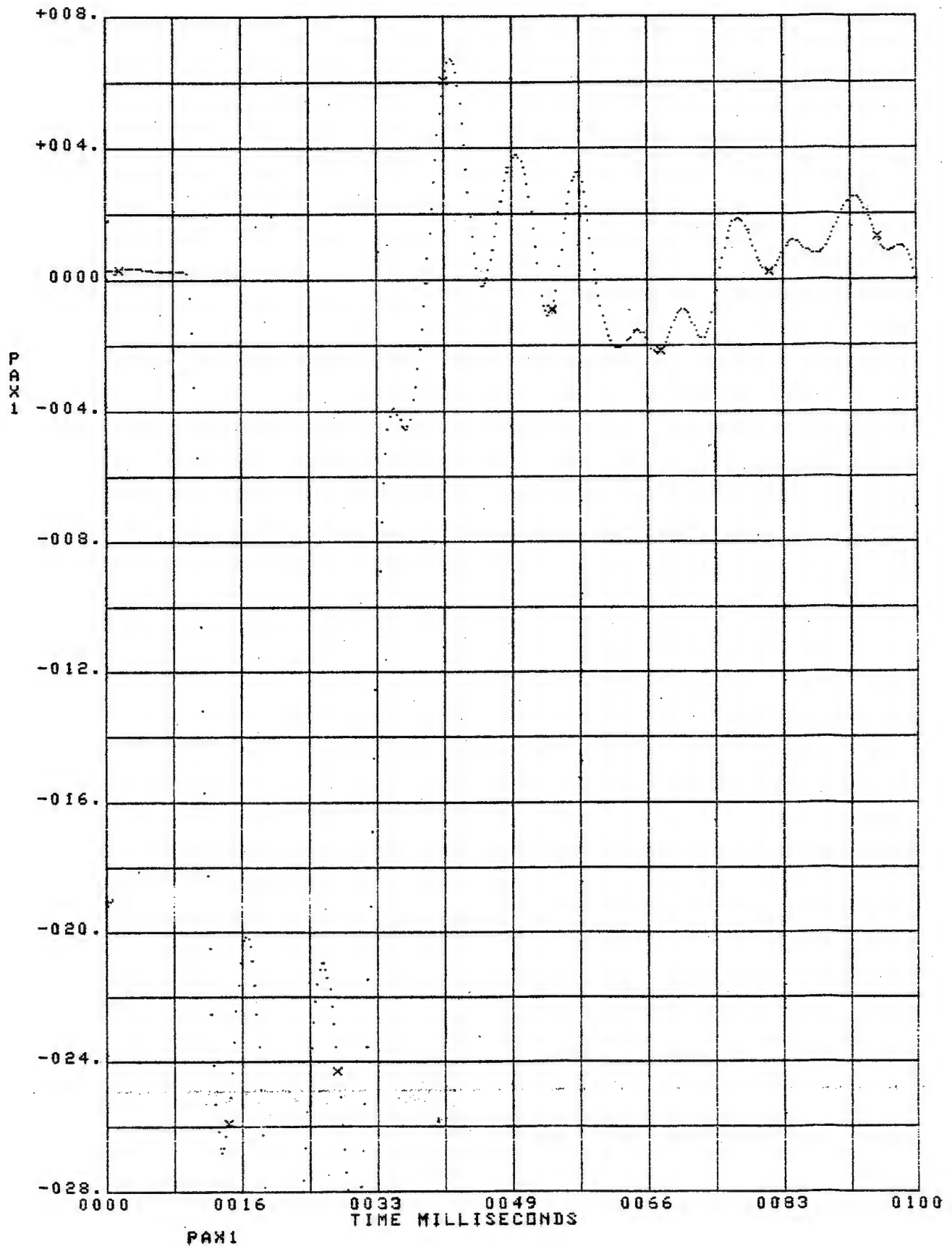
0°	0 ms	0 in.
30°	19	1.87
60°	34	3.90
83°	58	5.34
60°	85	4.04
30°	102	2.14
0°	117	-0.09











VARIABLE PAX1 TRC005

TIME					
0.00		+000.1	+000.1	+000.1	+000.1
1.25		+000.1	+000.1	+000.1	+000.1
2.50		+000.1	+000.1	+000.1	+000.1
3.75		+000.1	+000.1	+000.1	+000.1
5.00		+000.1	+000.1	+000.1	+000.1
6.25		+000.0	+000.0	+000.0	+000.0
7.50		+000.0	+000.0	+000.0	+000.0
8.75		+000.0	+000.0	+000.0	+000.0
10.00		+000.1	+000.7	+000.0	+000.0
11.25		-008.3	-010.9	-001.9	-003.4
				-013.6	-016.1
12.50	T2	-020.8	-022.7	-024.2	-025.4
13.75		-026.7	-026.9	-026.7	-026.4
15.00		-025.2	-024.5	-023.6	-022.7
16.25		-021.2	-020.8	-020.5	-020.4
17.50		-020.7	-021.1	-021.9	-022.7
18.75		-025.0	-026.3	-027.8	-029.2
20.00		-031.7	-032.8	-033.6	-034.4
21.25		-035.2	-035.2	-035.0	-034.7
22.50		-033.5	-032.6	-031.7	-030.7
23.75		-028.8	-027.7	-026.7	-025.6
25.00		-023.8	-023.8	-022.3	-021.8
26.25		-021.2	-021.2	-021.4	-021.6
27.50		-022.5	-023.0	-023.7	-024.4
28.75		-026.0	-026.7	-027.4	-028.0
30.00		-028.8	-028.9	-028.9	-028.6
31.25		-026.8	-025.4	-023.7	-021.7
32.50		-017.3	-015.0	-012.9	-010.9
33.75		-007.6	-006.4	-005.3	-004.8
35.00		-004.2	-004.1	-004.2	-004.3
36.25		-004.6	-004.7	-004.8	-004.6
37.50		-004.2	-003.9	-003.4	-002.9
38.75		-001.7	-000.9	-000.3	-000.4
40.00		+002.0	+002.8	+003.5	+004.2
41.25		+005.4	+005.9	+006.2	+006.5
42.50		+006.5	+006.4	+006.2	+005.7
43.75		+004.6	+003.9	+003.2	+002.5
45.00		+001.1	+000.6	+000.1	-000.1
46.25		-000.3	-000.3	-000.1	-000.1
47.50		+000.7	+001.1	+001.5	+001.8
48.75		+002.5	+002.8	+003.1	+003.2
50.00		+003.6	+003.6	+003.6	+003.6
51.25		+003.2	+003.0	+002.7	+002.3
52.50		+001.4	+000.8	+000.3	-000.1
53.75		-000.9	-001.1	-001.2	-001.2
55.00		-000.8	-000.5	-000.1	+000.2
56.25		+001.2	+001.7	+002.1	+002.5
57.50		+002.9	+003.1	+003.1	+002.9
58.75		+002.5	+002.0	+001.6	+001.0
60.00		+000.1	-000.3	-000.6	-000.9
61.25		-001.5	-001.7	-001.8	-002.0
62.50		-002.2	-002.2	-002.2	-002.2
63.75		-002.1	-002.0	-002.0	-001.9
65.00		-001.7	-001.7	-001.7	-001.8
66.25		-001.9	-002.0	-002.1	-002.3
67.50		-002.4	-002.4	-002.4	-002.3
68.75		-002.1	-001.9	-001.8	-001.6
70.00		-001.3	-001.2	-001.1	-001.0
71.25		-001.1	-001.2	-001.3	-001.5
72.50		-001.7	-001.8	-001.9	-001.9
73.75		-001.8	-001.7	-001.5	-001.2

VARIABLE PAX1 TRC005

75.00	-000.5	-000.1	+000.1	+000.4	+000.7
76.25	+001.0	+001.2	+001.4	+001.5	+001.6
77.50	+001.7	+001.7	+001.6	+001.5	+001.4
78.75	+001.3	+001.2	+001.0	+000.8	+000.6
80.00	+000.4	+000.3	+000.2	+000.1	+000.1
81.25	+000.0	+000.0	+000.1	+000.1	+000.2
82.50	+000.3	+000.4	+000.6	+000.7	+000.8
83.75	+000.9	+000.9	+001.0	+001.0	+000.9
85.00	+000.9	+000.9	+000.8	+000.7	+000.7
86.25	+000.7	+000.6	+000.6	+000.6	+000.6
87.50	+000.6	+000.6	+000.6	+000.7	+000.8
88.75	+000.9	+001.0	+001.2	+001.4	+001.5
90.00	+001.7	+001.8	+001.9	+002.0	+002.1
91.25	+002.2	+002.3	+002.3	+002.3	+002.3
92.50	+002.3	+002.2	+002.1	+002.0	+001.9
93.75	+001.7	+001.6	+001.4	+001.3	+001.1
95.00	+000.9	+000.8	+000.7	+000.7	+000.6
96.25	+000.6	+000.7	+000.7	+000.7	+000.8
97.50	+000.8	+000.8	+000.8	+000.7	+000.6
98.75	+000.5	+000.3	+000.1	-000.1	-000.4

3 APR 78
3 YR. OLD NECK PENDULUM

TEST # 008

RELEASE HOLE # 9

" hgt. $8 + \frac{3}{4}$ "

HEAD # 32

HEXCELL STANDARD

VELOCITY 17.25 FPS

RESULTS

HEXCELL CRUSHED TO 4.0"

RESULTANT 29.7 G

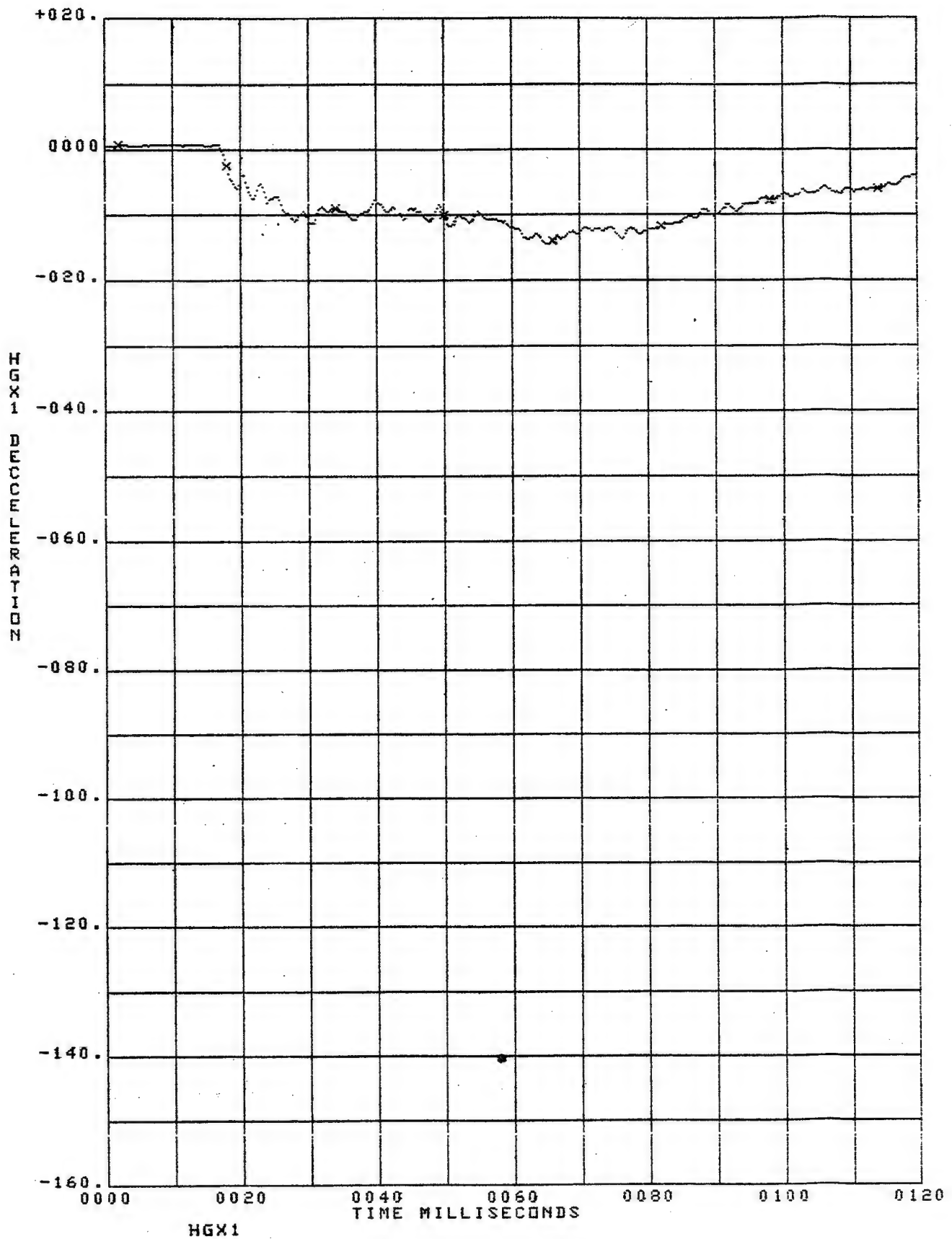
T2 - T1 1.5 ms

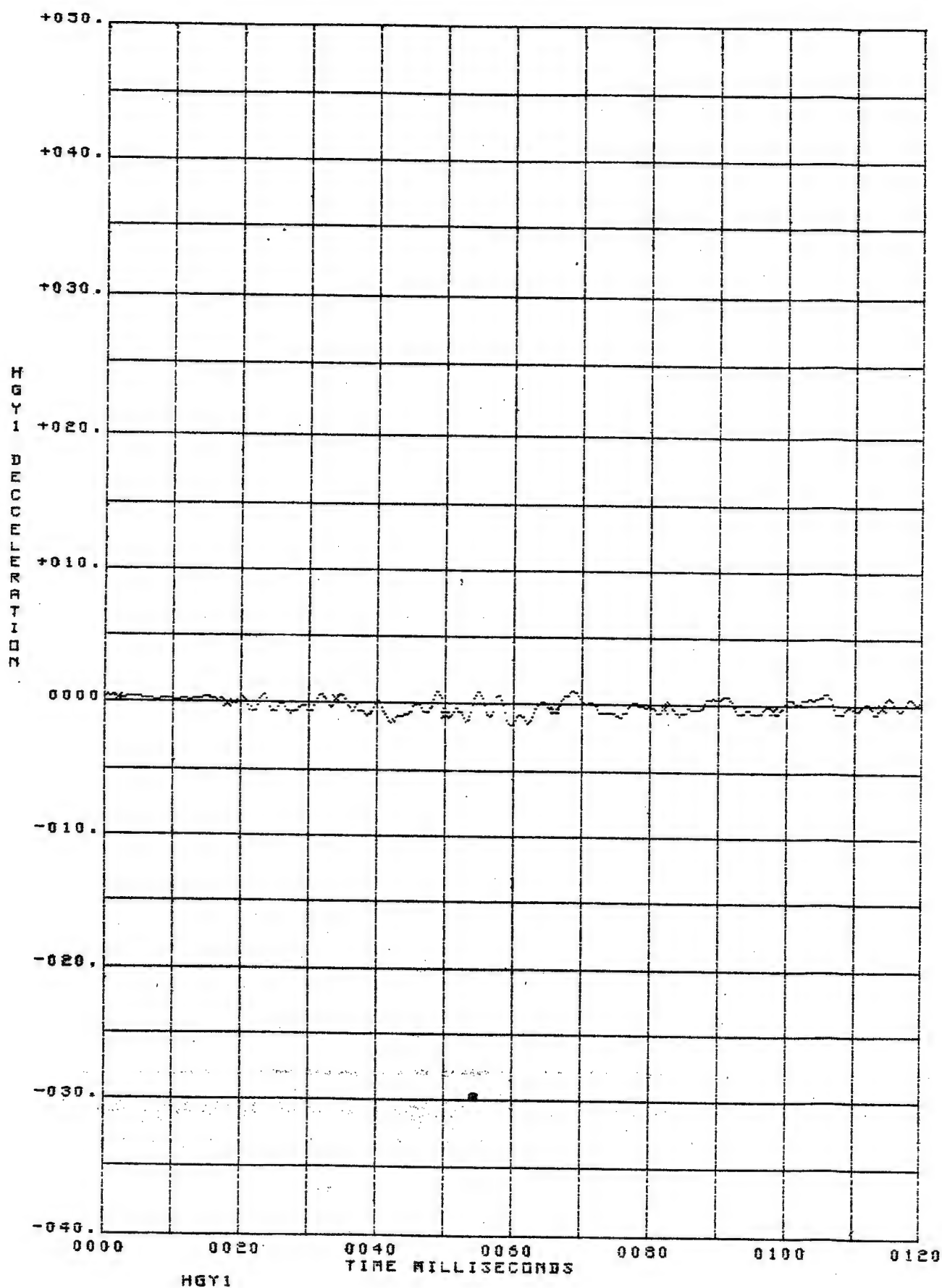
T3 - T2 19.0 ms

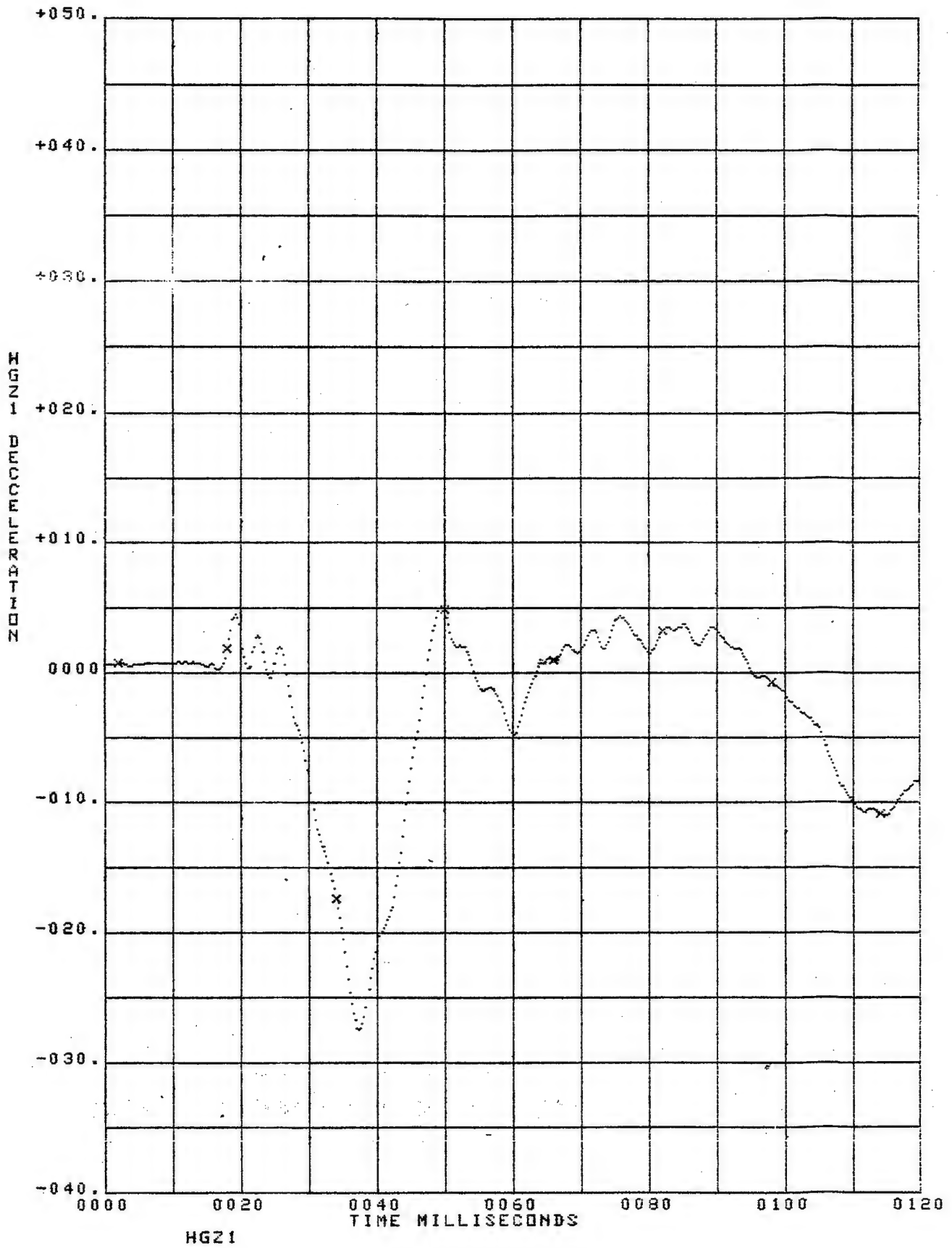
T4 - T3 2.0 ms

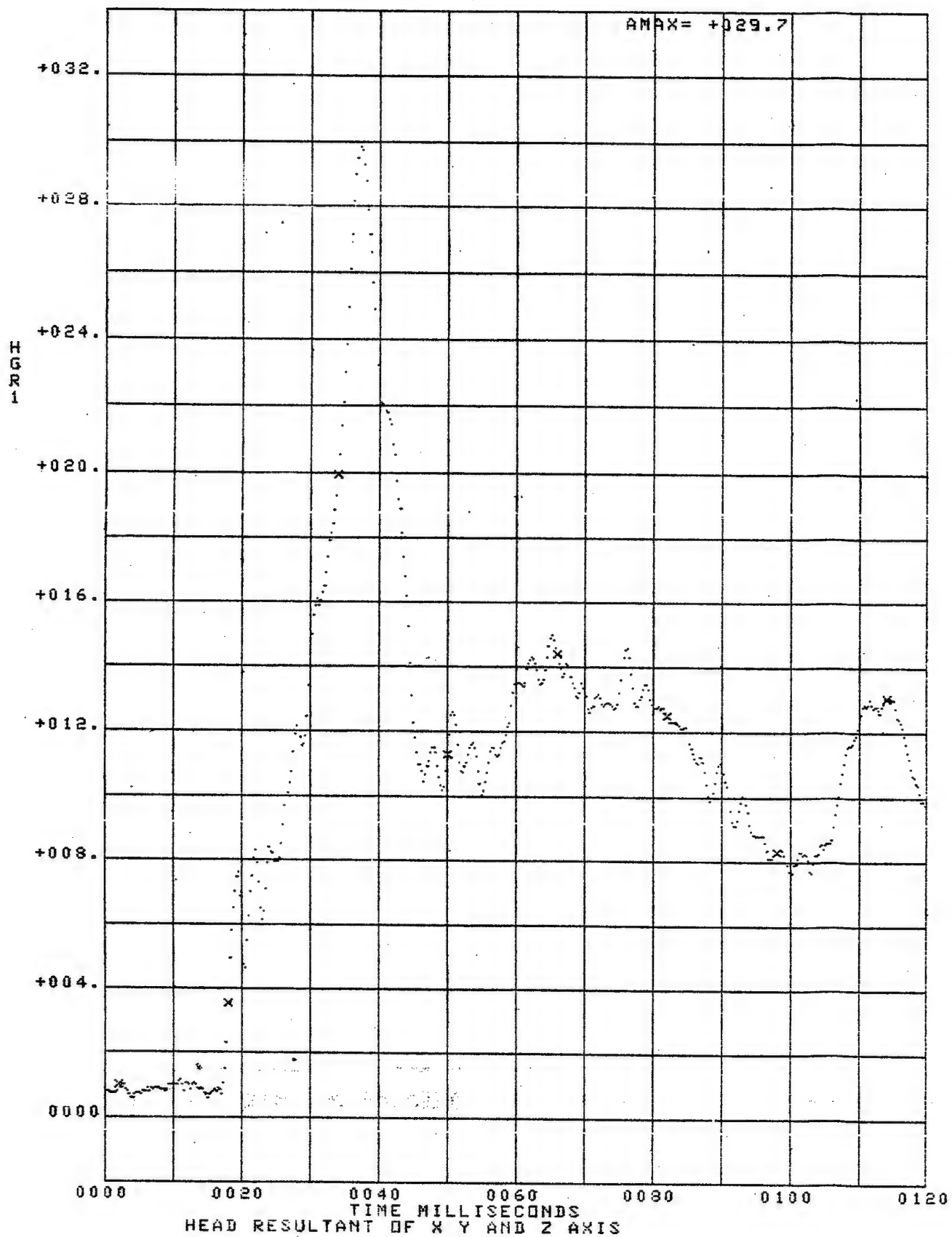
Ave T3-T2 26.4 G

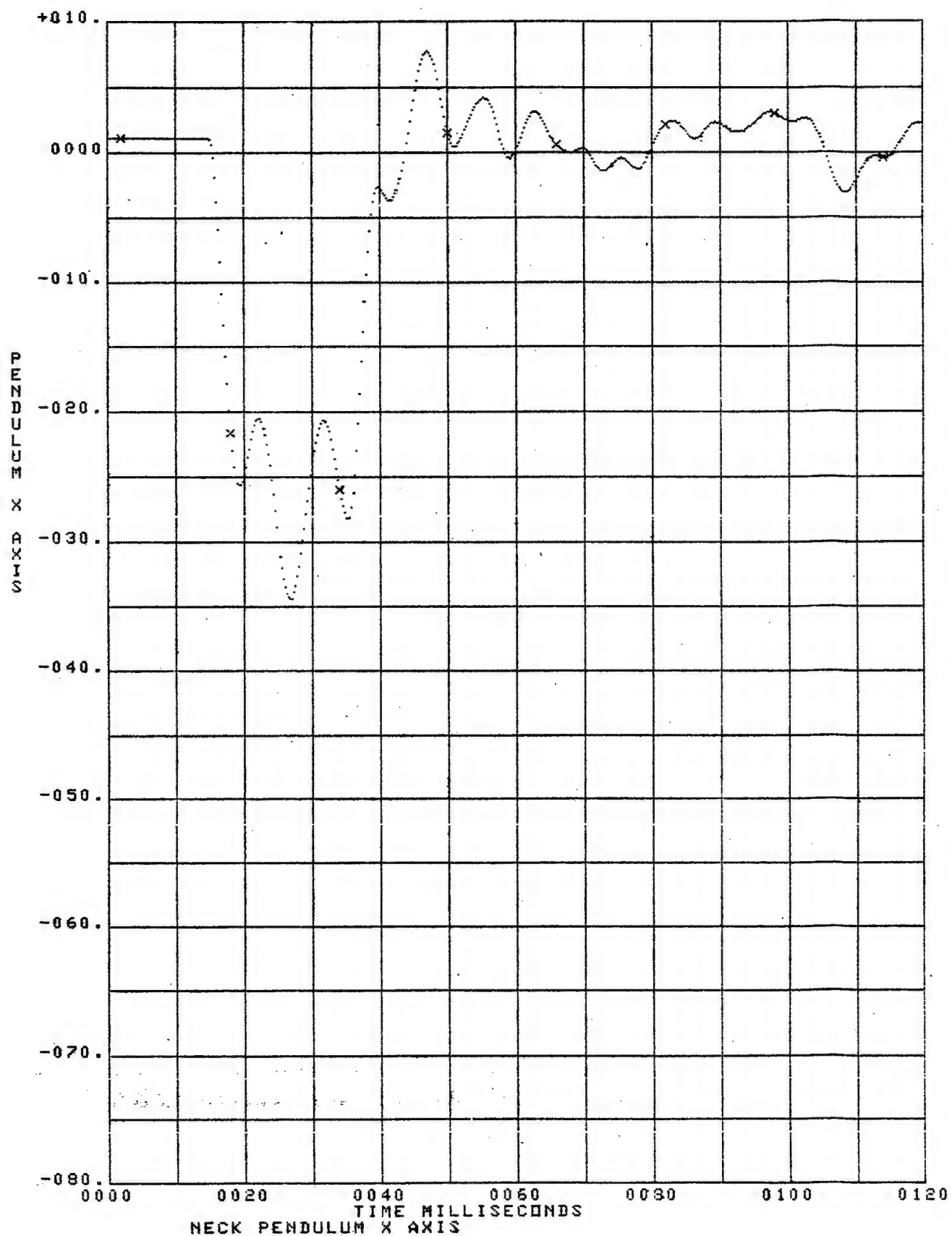
Rotation	Time	Disp
0°	0 ms	0 in.
30°	21	1.93
60°	38	4.13
79.5°	64	5.29
60°	87	4.13
30°	109	1.57
0°	121	-0.18











VARIABLE PAXI TRC008

TIME					
0.00		+000.9	+000.9	+000.9	+000.9
1.25		+001.0	+001.0	+001.0	+001.0
2.50		+000.9	+000.9	+000.9	+000.9
3.75		+000.9	+000.9	+000.9	+001.0
5.00		+001.0	+001.0	+001.0	+001.0
6.25		+001.0	+001.0	+000.9	+000.9
7.50		+000.9	+000.9	+000.9	+000.9
8.75		+000.9	+000.9	+000.9	+000.9
10.00		+001.0	+001.0	+001.0	+000.9
11.25		+000.9	+001.0	+000.9	+000.9
12.50		+000.9	+000.9	+000.9	+000.9
13.75		+000.9	+000.9	+000.9	+000.9
15.00		+000.4	-000.4	-001.9	-003.8
16.25		-008.5	-010.9	-013.4	-015.8
17.50	72	-019.9	-021.6	-023.1	-024.2
18.75		-025.4	-025.6	-025.6	-025.3
20.00		-024.2	-023.5	-022.8	-022.1
21.25		-021.0	-020.7	-020.5	-020.5
22.50		-021.3	-021.8	-022.4	-023.2
23.75		-025.2	-026.4	-027.6	-028.9
25.00		-031.0	-032.0	-032.8	-033.5
26.25		-034.2	-034.3	-034.3	-033.9
27.50		-032.6	-031.8	-030.9	-029.9
28.75		-027.9	-026.8	-025.8	-024.8
30.00		-023.1	-022.3	-021.8	-021.2
31.25		-020.7	-020.6	-020.8	-021.1
32.50		-022.1	-022.8	-023.6	-024.4
33.75		-026.0	-026.7	-027.3	-027.8
35.00		-028.2	-027.9	-027.3	-026.3
36.25		-023.1	-020.9	-018.6	-016.2
37.50		-011.5	-009.4	-007.6	-006.0
38.75		-003.8	-003.2	-002.8	-002.7
40.00		-002.9	-003.2	-003.3	-003.5
41.25		-003.7	-003.6	-003.5	-003.2
42.50		-002.4	-002.0	-001.4	-000.8
43.75		+000.6	+001.4	+002.1	+003.0
45.00		+004.6	+005.3	+006.0	+006.5
46.25		+007.3	+007.5	+007.5	+007.5
47.50		+007.0	+006.5	+006.0	+005.4
48.75		+003.9	+003.2	+002.5	+001.8
50.00		+000.9	+000.5	+000.3	+000.3
51.25		+000.5	+000.7	+001.0	+001.2
52.50		+001.3	+002.1	+002.5	+002.7
53.75		+003.2	+003.5	+003.7	+003.9
55.00		+004.0	+004.0	+003.9	+003.8
56.25		+003.2	+002.9	+002.5	+001.9
57.50		+000.9	+000.4	+000.0	-000.2
58.75		-000.5	-000.5	-000.3	-000.2
60.00		+000.3	+000.6	+000.9	+001.3
61.25		+002.0	+002.3	+002.6	+002.8
62.50		+002.9	+002.9	+002.8	+002.7
63.75		+002.2	+001.9	+001.7	+001.4
65.00		+000.9	+000.7	+000.6	+000.4
66.25		+000.1	+000.0	+000.0	-000.0
67.50		-000.0	-000.0	-000.0	-000.0
68.75		+000.0	+000.0	+000.1	+000.1
70.00		+000.0	+000.0	-000.2	-000.3
71.25		-000.8	-001.0	-001.2	-001.3
72.50		-001.4	-001.4	-001.4	-001.3
73.75		-001.0	-000.9	-000.8	-000.7

VARIABLE	PAX1	TRC008				
75.00	-000.5	-000.5	-000.5	-000.6	-000.7	
76.25	-000.8	-000.9	-001.0	-001.1	-001.2	
77.50	-001.3	-001.3	-001.3	-001.1	-001.0	
78.75	-000.8	-000.5	-000.2	+000.0	+000.3	
80.00	+000.5	+000.8	+001.0	+001.3	+001.5	
81.25	+001.7	+001.8	+001.9	+002.0	+002.1	
82.50	+002.1	+002.2	+002.2	+002.1	+002.1	
83.75	+002.0	+001.8	+001.7	+001.5	+001.4	
85.00	+001.2	+001.1	+001.0	+000.9	+000.9	
86.25	+000.9	+001.0	+001.1	+001.2	+001.4	
87.50	+001.5	+001.7	+001.8	+002.0	+002.0	
88.75	+002.1	+002.1	+002.1	+002.1	+002.0	
90.00	+001.9	+001.8	+001.8	+001.7	+001.6	
91.25	+001.5	+001.5	+001.5	+001.4	+001.4	
92.50	+001.4	+001.4	+001.5	+001.5	+001.5	
93.75	+001.7	+001.8	+001.8	+002.0	+002.1	
95.00	+002.2	+002.3	+002.5	+002.6	+002.6	
96.25	+002.8	+002.8	+002.9	+002.9	+002.9	
97.50	+002.9	+002.8	+002.8	+002.7	+002.6	
98.75	+002.5	+002.4	+002.3	+002.3	+002.1	
100.00	+002.1	+002.1	+002.1	+002.1	+002.2	
101.25	+002.3	+002.3	+002.4	+002.4	+002.4	
102.50	+002.4	+002.3	+002.3	+002.1	+002.0	
103.75	+001.7	+001.5	+001.2	+000.9	+000.6	
105.00	+000.2	-000.0	-000.5	-000.8	-001.3	
106.25	-001.6	-002.0	-002.3	-002.5	-002.8	
107.50	-002.9	-003.0	-003.1	-003.1	-003.0	
108.75	-002.9	-002.8	-002.6	-002.4	-002.1	
110.00	-001.9	-001.6	-001.3	-001.1	-000.9	
111.25	-000.7	-000.6	-000.5	-000.4	-000.3	
112.50	-000.3	-000.3	-000.3	-000.4	-000.4	
113.75	-000.4	-000.4	-000.4	-000.3	-000.3	
115.00	-000.2	-000.0	+000.1	+000.3	+000.5	
116.25	+000.7	+000.9	+001.1	+001.3	+001.5	
117.50	+001.7	+001.8	+001.9	+002.0	+002.0	
118.75	+002.0	+002.0	+002.0	+002.0	+000.0	

3 yr. old NECK pendulum

TEST # N002

RELEASE hole # 9

" hgt. 84"

HEAD # 38

HEXCELL standard

VELOCITY 17.5 fps

RESULTS

HEXCELL CRUSHED TO

RESULTANT 26.3 G

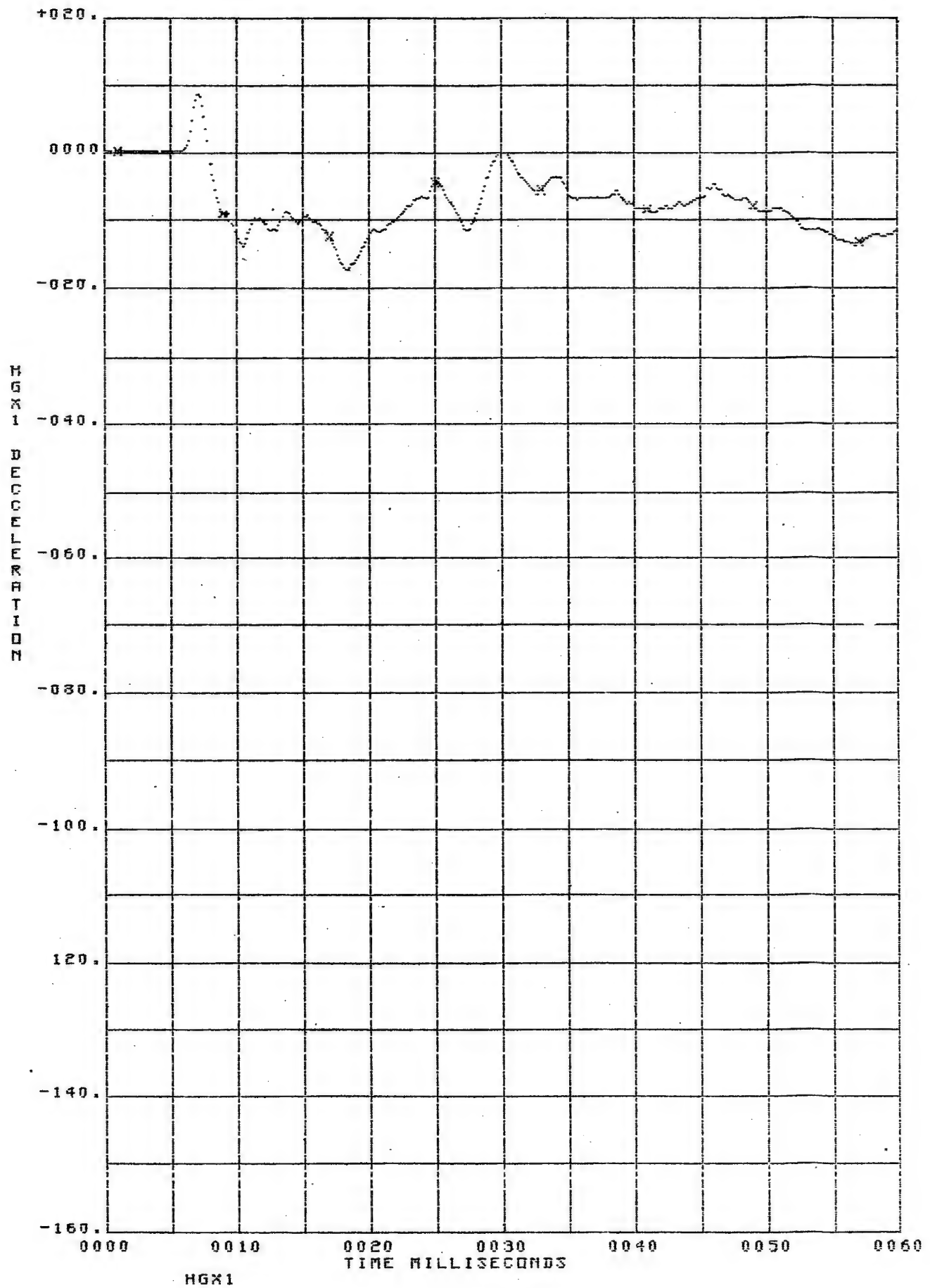
T2 - T1 1.625 m. s.

T3 - T2 19.000 m. s.

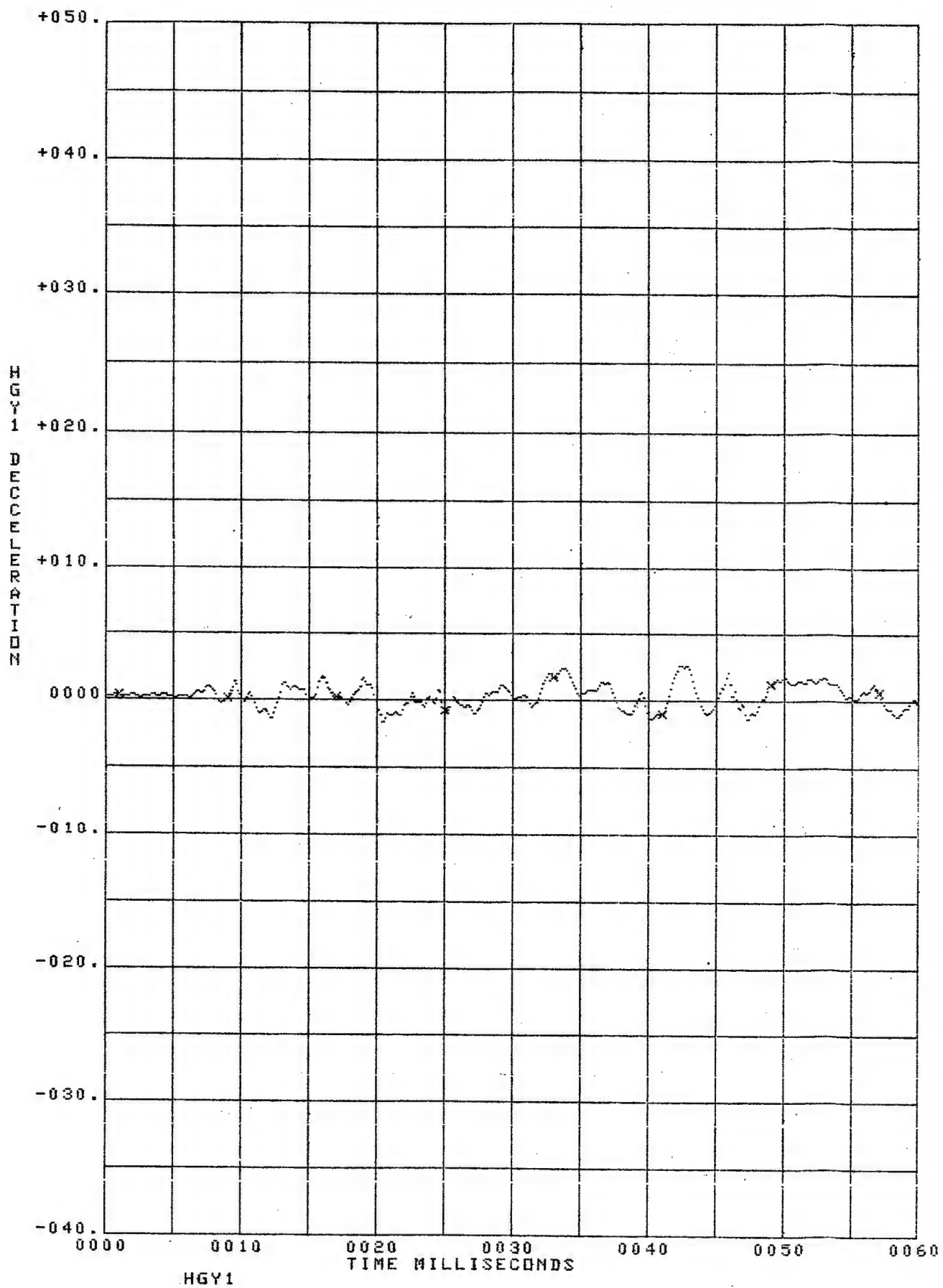
T4 - T3 1.625 m. s.

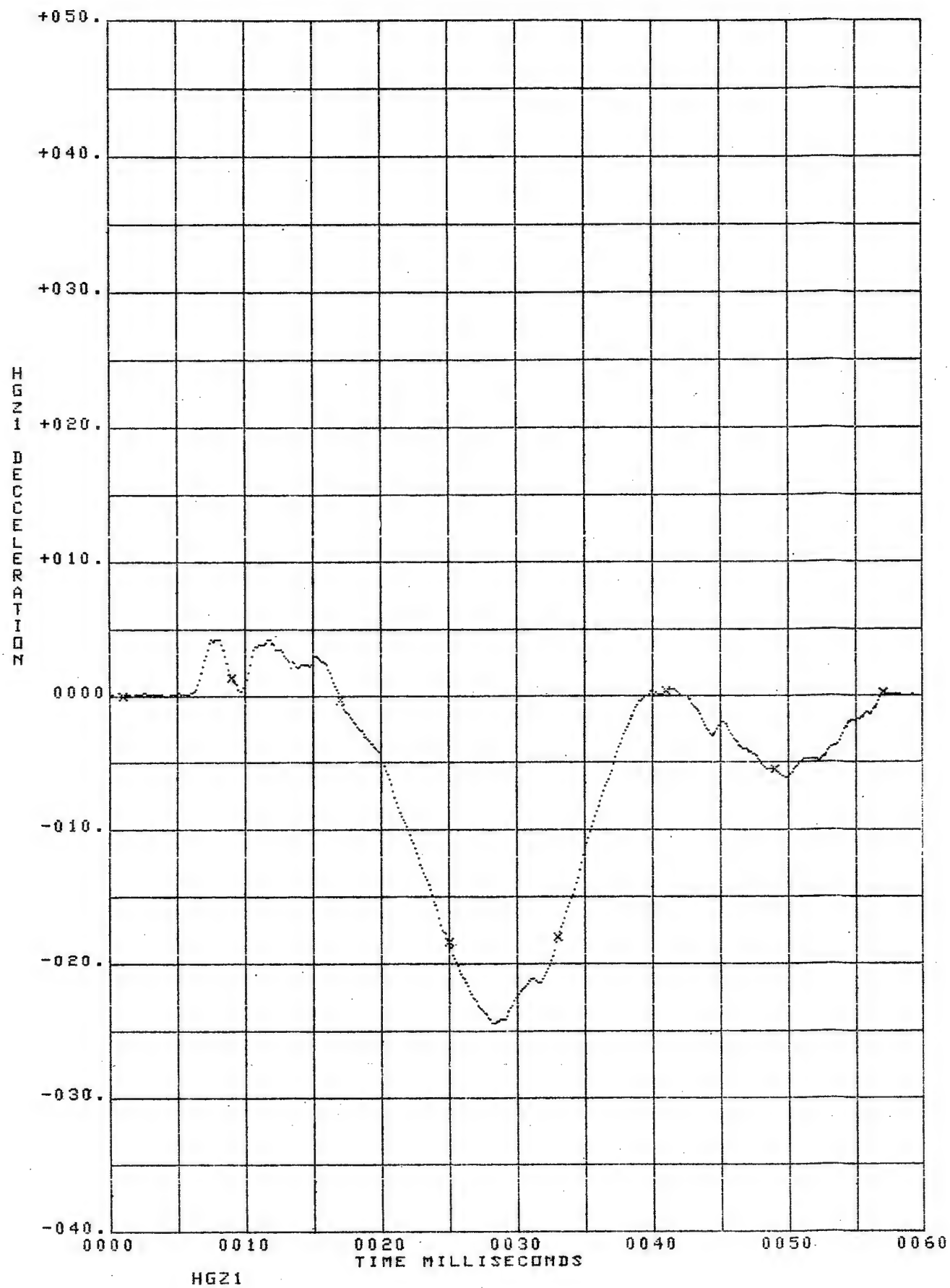
Ave T3-T2 26.641 G

Rotation	Time	Disp
0°	0 ms	0
30°	22	2.08
60°	37	4.20
81°	66	5.59
60°	92	4.33
30°	111	2.16
0°	126	.07

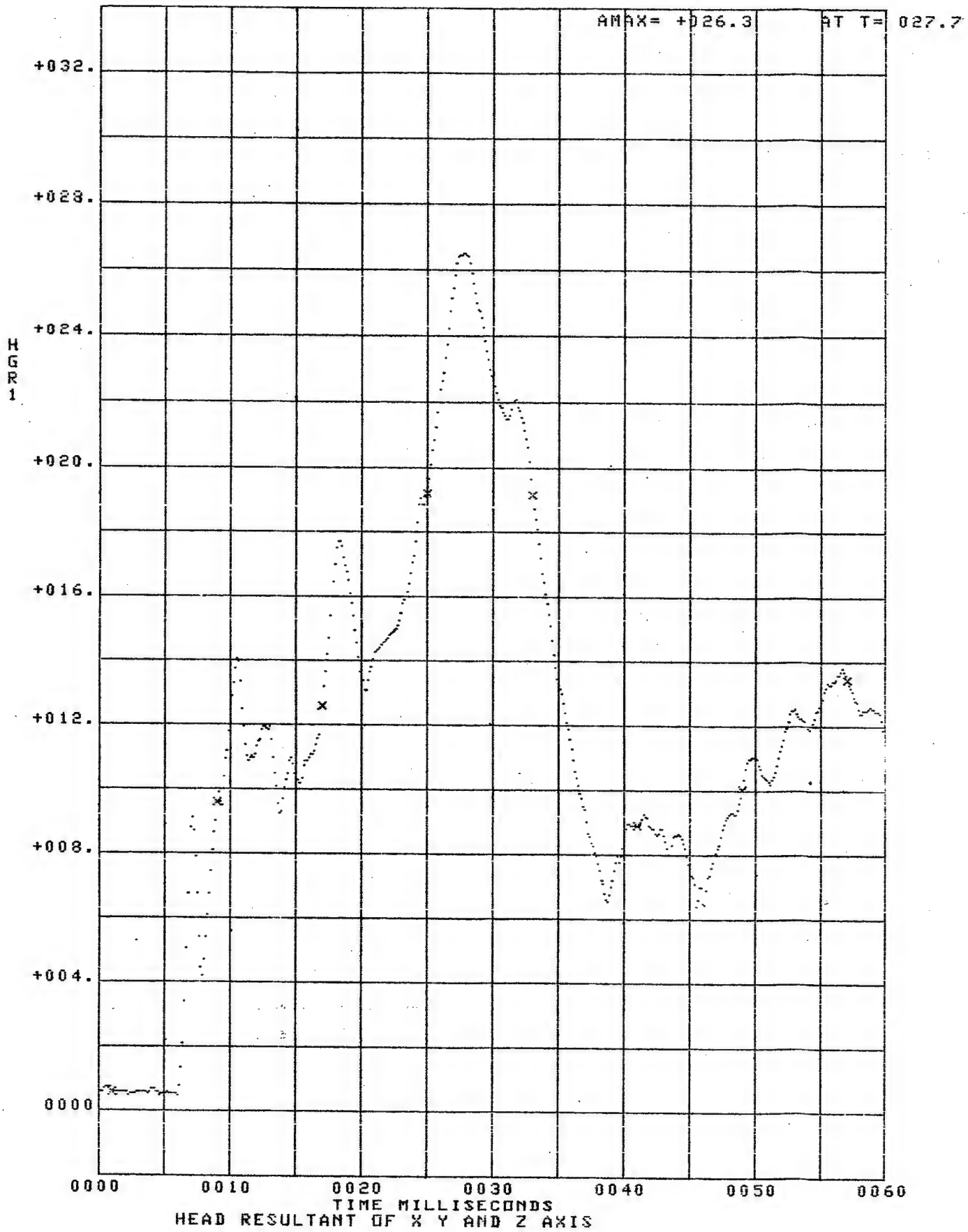


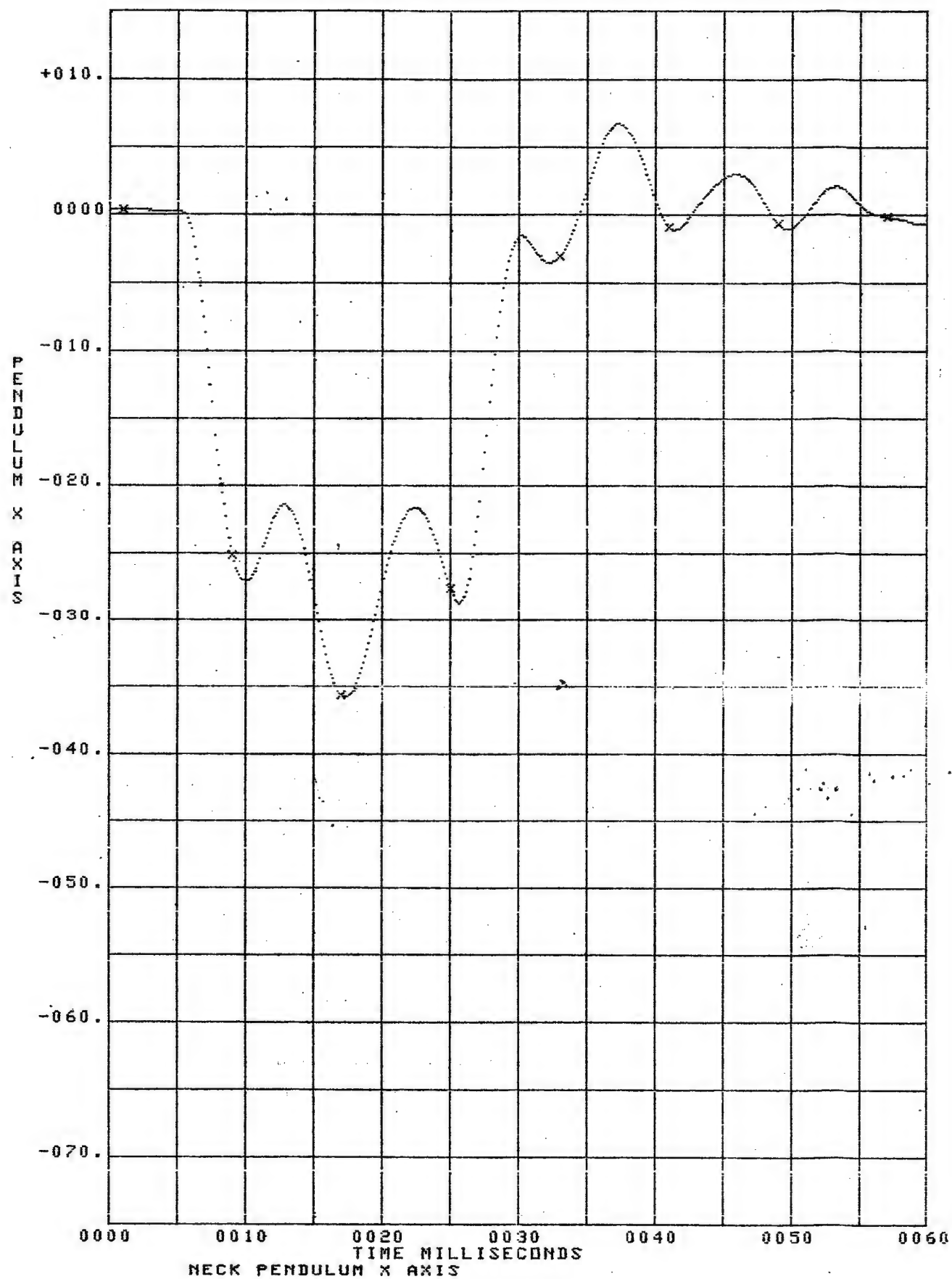
NECK PENDULUM
TEST N002





NECK PENDULUM
TEST N002





VARIABLE PAX1 N002

TIME					
0.0000	+000.2	+000.2	+000.1	+000.1	+000.1
0.6250	+000.1	+000.1	+000.1	+000.1	+000.1
1.2500	+000.1	+000.1	+000.1	+000.1	+000.1
1.8750	+000.1	+000.1	+000.1	+000.1	+000.1
2.5000	+000.1	+000.1	+000.0	+000.1	+000.0
3.1250	+000.0	+000.0	+000.0	+000.0	+000.0
3.7500	+000.0	+000.0	+000.0	+000.0	+000.0
4.3750	+000.0	+000.0	+000.0	+000.0	+000.0
5.0000	+000.0	+000.0	+000.0	+000.0	+000.2
5.6250	-000.4	-000.8	-001.2	-001.8	-002.6
6.2500	-003.4	-004.4	-005.4	-006.5	-007.6
6.8750	-008.8	-010.1	-011.4	-012.6	-013.9
7.5000	-015.1	-016.4	-017.5	-018.6	-019.7
8.1250	-020.6	-021.5	-022.4	-023.3	-024.0
8.7500	-024.7	-025.2	-025.8	-026.2	-026.5
9.3750	-026.7	-027.0	-027.1	-027.1	-027.1
10.0000	-027.1	-027.1	-026.9	-026.7	-026.5
10.6250	-026.2	-025.8	-025.5	-025.1	-024.7
11.2500	-024.4	-023.9	-023.6	-023.2	-022.8
11.8750	-022.5	-022.3	-022.1	-021.9	-021.7
12.5000	-021.6	-021.6	-021.6	-021.6	-021.7
13.1250	-021.9	-022.0	-022.3	-022.6	-022.9
13.7500	-023.3	-023.7	-024.2	-024.7	-025.3
14.3750	-025.8	-026.5	-027.1	-027.7	-028.4
15.0000	-029.0	-029.6	-030.3	-031.0	-031.6
15.6250	-032.1	-032.7	-033.3	-033.8	-034.2
16.2500	-034.5	-034.8	-035.1	-035.4	-035.5
16.8750	-035.7	-035.8	-035.8	-035.8	-035.8
17.5000	-035.7	-035.5	-035.4	-035.2	-034.9
18.1250	-034.5	-034.1	-033.8	-033.3	-032.8
18.7500	-032.3	-031.9	-031.3	-030.8	-030.2
19.3750	-029.7	-029.1	-028.6	-028.0	-027.4
20.0000	-026.9	-026.4	-026.0	-025.5	-025.0
20.6250	-024.5	-024.2	-023.9	-023.5	-023.1
21.2500	-022.9	-022.7	-022.5	-022.3	-022.0
21.8750	-021.9	-021.9	-021.8	-021.8	-021.7
22.5000	-021.8	-021.9	-022.0	-022.1	-022.3
23.1250	-022.5	-022.7	-023.1	-023.4	-023.7
23.7500	-024.1	-024.4	-024.9	-025.3	-025.7
24.3750	-026.1	-026.6	-027.0	-027.4	-027.7
25.0000	-028.0	-028.3	-028.6	-028.7	-028.8
25.6250	-028.8	-028.6	-028.4	-028.0	-027.5
26.2500	-026.9	-026.3	-025.4	-024.5	-023.5
26.8750	-022.4	-021.3	-020.4	-018.9	-017.7
27.5000	-016.4	-015.1	-013.9	-012.6	-011.5
28.1250	-010.4	-009.2	-008.3	-007.3	-006.4
28.7500	-005.4	-004.8	-004.2	-003.6	-003.1
29.3750	-002.7	-002.4	-002.1	-002.0	-001.8
30.0000	-001.7	-001.7	-001.8	-001.8	-002.0
30.6250	-002.1	-002.3	-002.5	-002.7	-002.9
31.2500	-003.1	-003.2	-003.4	-003.5	-003.6
31.8750	-003.7	-003.7	-003.7	-003.7	-003.6
32.5000	-003.6	-003.4	-003.4	-003.2	-003.0
33.1250	-002.9	-002.6	-002.5	-002.1	-001.9
33.7500	-001.6	-001.3	-001.0	-000.6	-000.2
34.3750	+000.0	+000.5	+000.8	+001.2	+001.6
35.0000	+002.1	+002.4	+002.8	+003.2	+003.6
35.6250	+004.0	+004.4	+004.7	+005.0	+005.3
36.2500	+005.5	+005.8	+006.0	+006.1	+006.3
36.8750	+006.4	+006.5	+006.5	+006.5	+006.4

VARIABLE	PAX1	N002				
37.5000		+006.3	+006.2	+006.1	+005.9	+005.7
38.1250		+005.5	+005.3	+005.0	+004.7	+004.4
38.7500		+004.1	+003.8	+003.5	+003.1	+002.7
39.3750		+002.3	+002.0	+001.6	+001.2	+000.8
40.0000		+000.5	+000.2	-000.0	-000.3	-000.5
40.6250		-000.8	-000.9	-001.0	-001.2	-001.2
41.2500		-001.3	-001.2	-001.2	-001.2	-001.1
41.8750		-001.0	-000.8	-000.7	-000.5	-000.3
42.5000		-000.2	+000.0	+000.2	+000.3	+000.5
43.1250		+000.7	+000.8	+001.0	+001.1	+001.3
43.7500		+001.4	+001.5	+001.6	+001.8	+001.9
44.3750		+002.0	+002.1	+002.2	+002.3	+002.4
45.0000		+002.4	+002.5	+002.6	+002.6	+002.7
45.6250		+002.7	+002.7	+002.7	+002.7	+002.6
46.2500		+002.5	+002.5	+002.4	+002.4	+002.2
46.8750		+002.1	+001.9	+001.8	+001.6	+001.4
47.5000		+001.2	+001.0	+000.8	+000.6	+000.3
48.1250		+000.1	-000.0	-000.2	-000.4	-000.5
48.7500		-000.7	-000.9	-001.0	-001.1	-001.2
49.3750		-001.2	-001.2	-001.2	-001.2	-001.1
50.0000		-001.0	-000.9	-000.8	-000.7	-000.6
50.6250		-000.4	-000.3	-000.1	-000.0	+000.1
51.2500		+000.3	+000.5	+000.6	+000.8	+000.9
51.8750		+001.1	+001.2	+001.3	+001.4	+001.6
52.5000		+001.6	+001.8	+001.8	+001.8	+001.8
53.1250		+001.8	+001.8	+001.8	+001.7	+001.6
53.7500		+001.6	+001.4	+001.4	+001.3	+001.1
54.3750		+001.0	+000.9	+000.7	+000.6	+000.5
55.0000		+000.3	+000.2	+000.2	+000.0	+000.0
55.6250		-000.0	-000.0	-000.1	-000.2	-000.2
56.2500		-000.2	-000.3	-000.3	-000.3	-000.3
56.8750		-000.3	-000.3	-000.4	-000.4	-000.4
57.5000		-000.5	-000.5	-000.5	-000.5	-000.5
58.1250		-000.6	-000.6	-000.7	-000.7	-000.7
58.7500		-000.8	-000.8	-000.8	-000.8	-000.8
59.3750		-000.8	-000.8	-000.9	-000.9	+000.0

3 yr. old NECK pendulum

TEST # N004

RELEASE HOLE # 9

" hgt. 84"

HEAD # 38

HEXCELL STANDARD

Velocity 17.5 fps

RESULTS

HEXCELL CRUSHED TO

RESULTANT 25.6 G

T2 - T1 2.250 m. s.

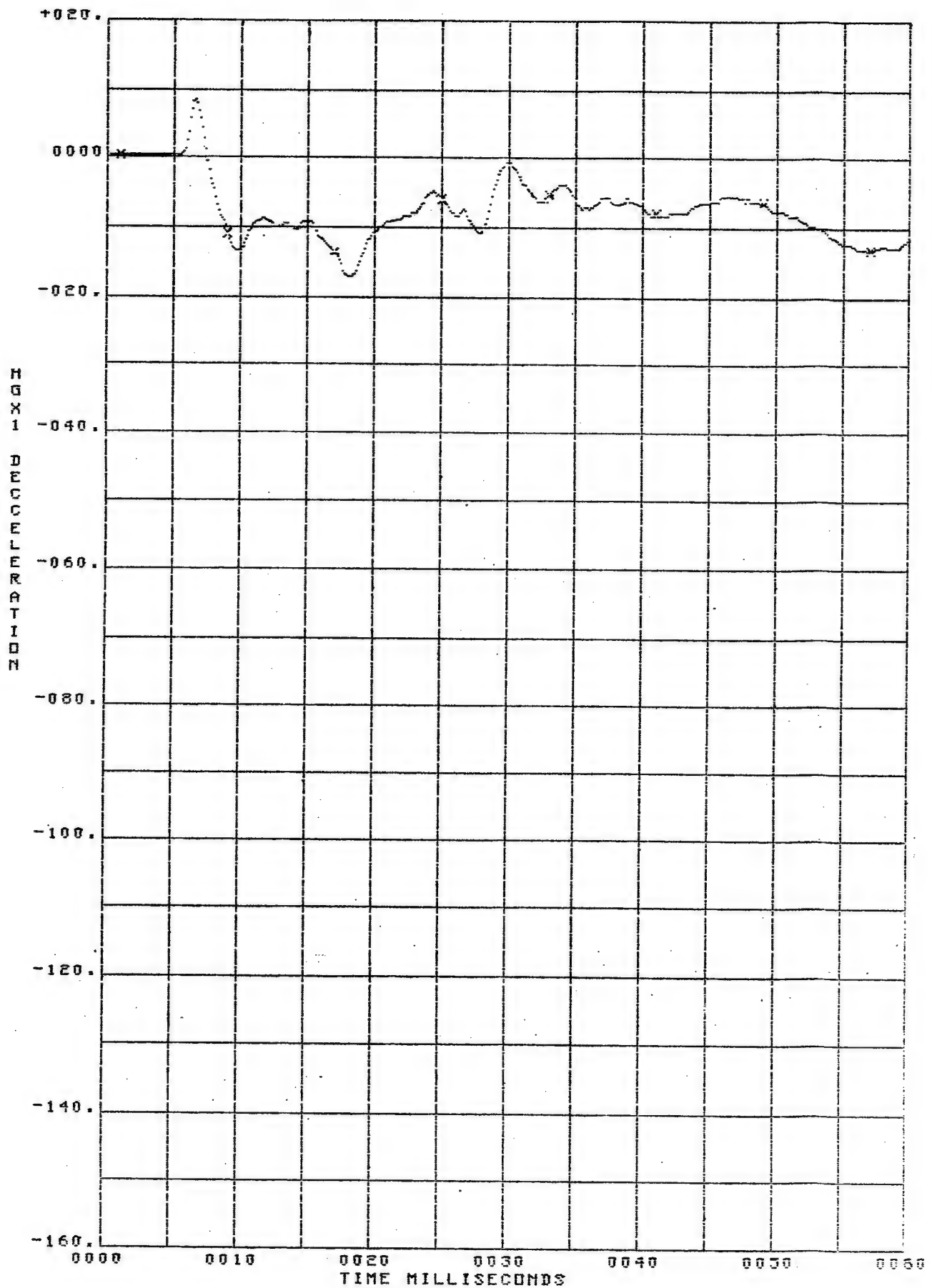
T3 - T2 18.750 m. s.

T4 - T3 2.125 m. s.

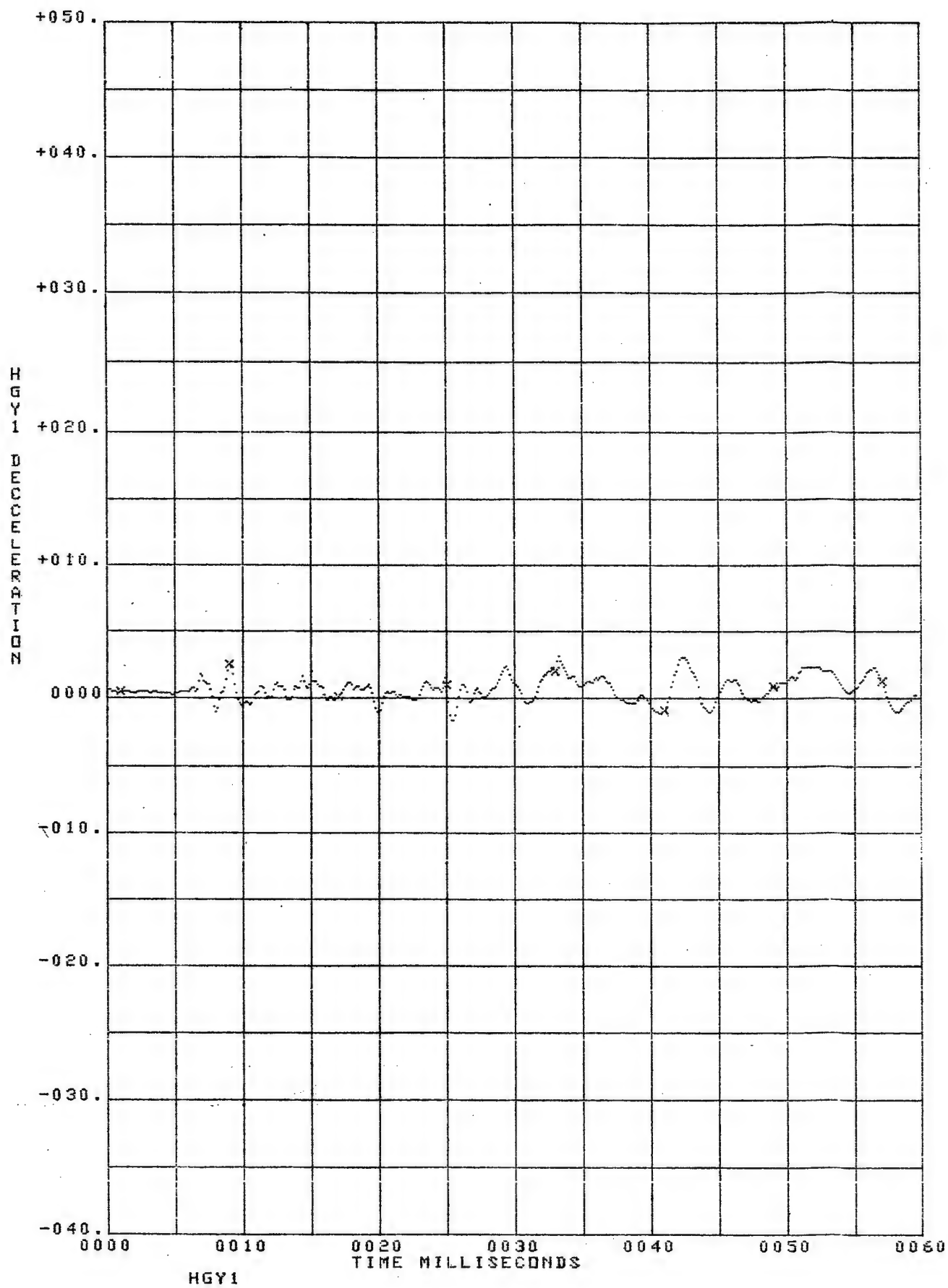
Ave T3-T2 25.971 G.

Rotation	Time	Disp
0°	0ms	0 ins
30°	21	2.05
60°	38	4.55
85°	67	5.90
60°	96	4.31
30°	113	2.33
0°	127	0.20

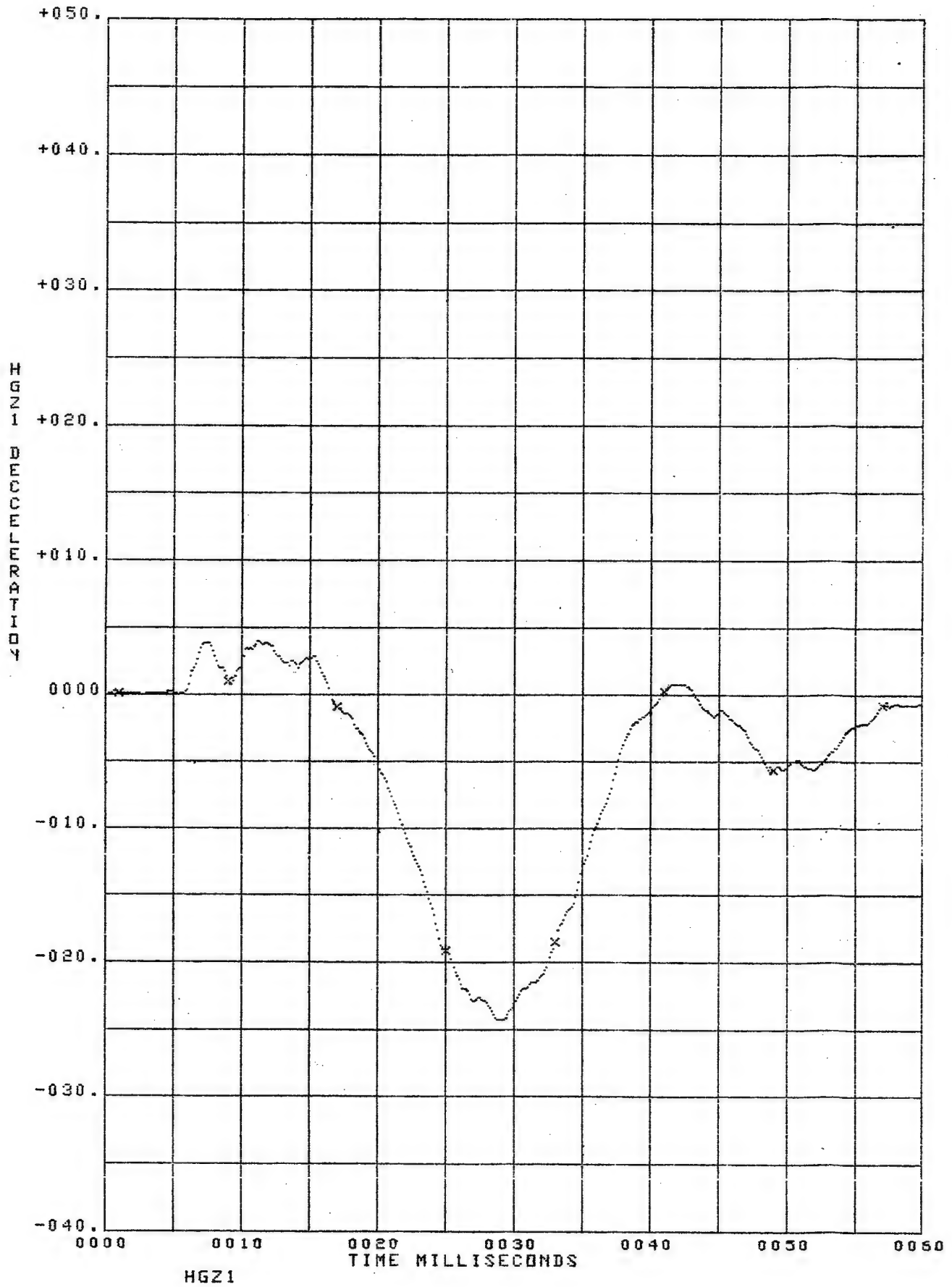
NECK PENDULUM
TEST N004



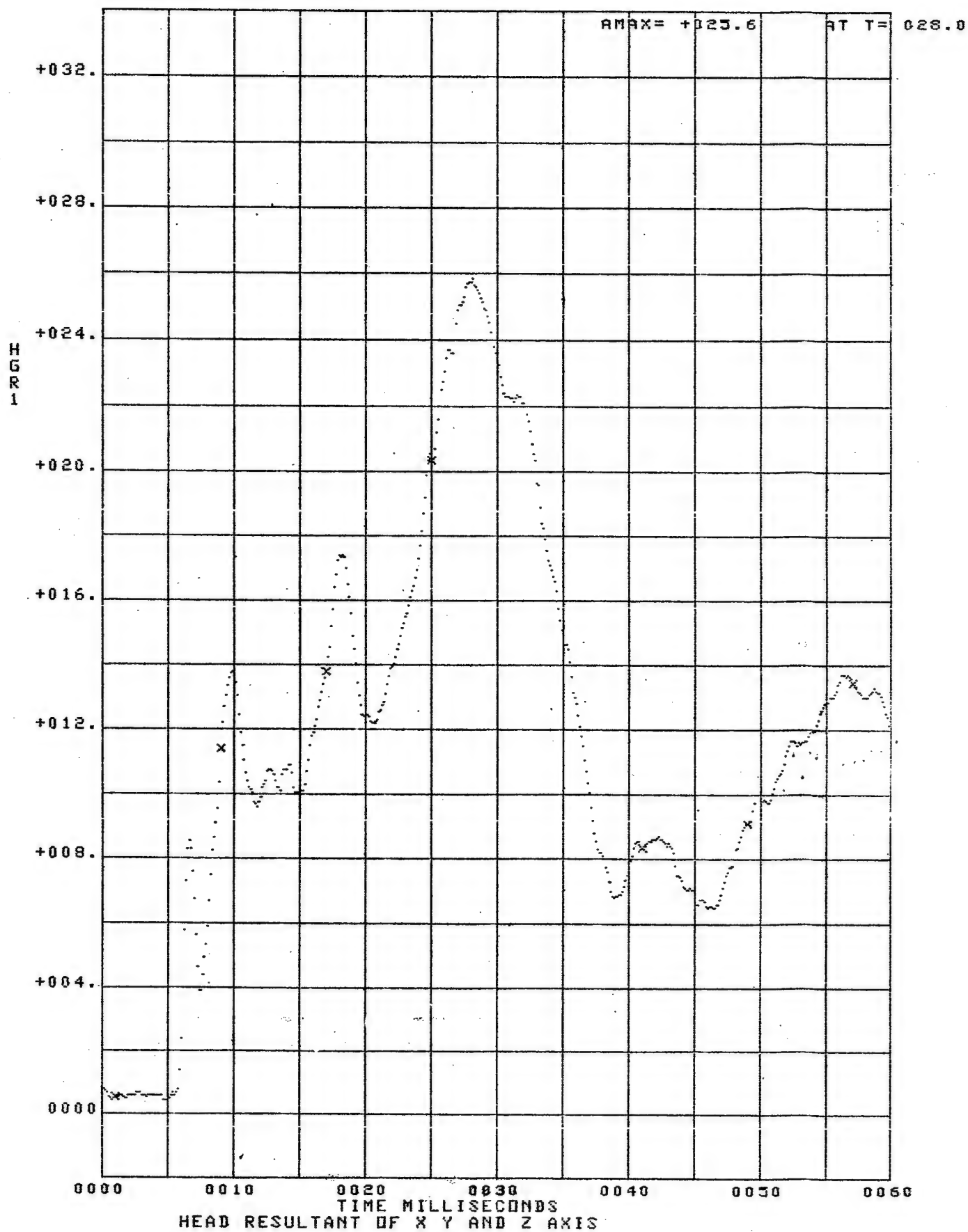
NECK PENDULUM
TEST N004



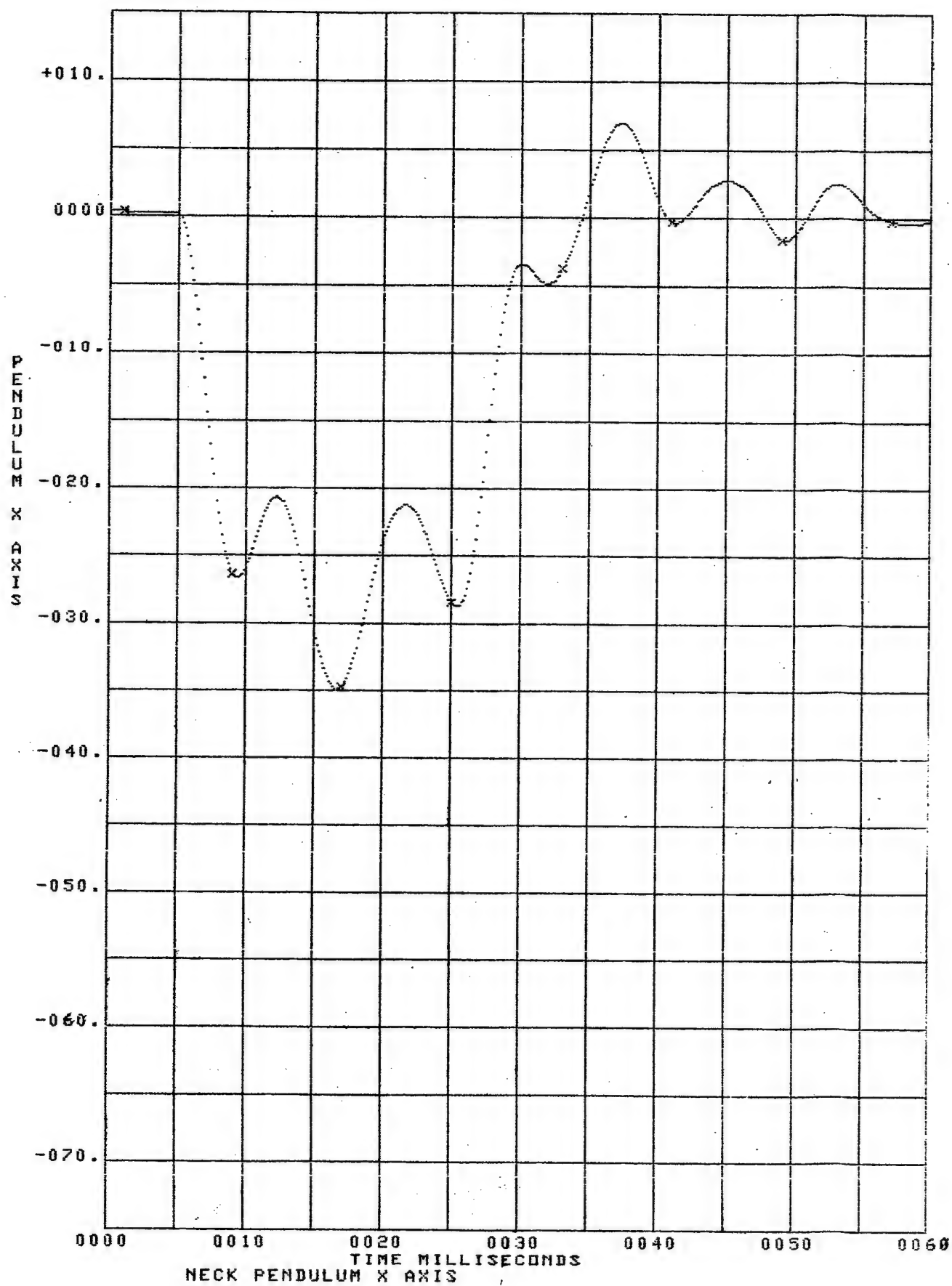
NECK PENDULUM
TEST N004



NECK PENDULUM
TEST N004



NECK PENDULUM
TEST N004



VARIABLE PAX1 N004

TIME					
0.0000	+000.1	+000.1	+000.1	+000.1	+000.1
0.6250	+000.1	+000.1	+000.1	+000.1	+000.1
1.2500	+000.0	+000.0	+000.0	+000.0	+000.0
1.8750	+000.0	+000.0	+000.0	+000.0	+000.0
2.5000	+000.0	+000.0	+000.0	+000.0	+000.0
3.1250	+000.0	+000.0	+000.0	+000.0	+000.0
3.7500	+000.0	+000.0	+000.0	+000.0	+000.0
4.3750	+000.0	+000.0	+000.0	+000.0	+000.0
5.0000	-000.1	-000.3	-000.7	-001.1	-001.6
5.6250	-002.3	-003.1	-004.0	-004.9	-006.0
6.2500	-007.1	-008.2	-009.4	-010.7	-011.9
6.8750	-013.2	-014.4	-015.6	-016.8	-018.0
7.5000	-019.1	-020.1	-021.0	-022.0	-022.7
8.1250	-023.5	-024.2	-024.8	-025.3	-025.7
8.7500	-026.1	-026.4	-026.6	-026.7	-026.7
9.3750	-026.7	-026.5	-026.4	-026.2	-025.9
10.0000	-025.6	-025.3	-024.9	-024.6	-024.2
10.6250	-023.7	-023.4	-023.0	-022.6	-022.3
11.2500	-021.9	-021.6	-021.4	-021.2	-021.0
11.8750	-020.9	-020.8	-020.7	-020.8	-020.9
12.5000	-021.0	-021.2	-021.5	-021.7	-022.1
13.1250	-022.4	-022.9	-023.3	-023.8	-024.3
13.7500	-024.9	-025.6	-026.2	-026.8	-027.4
14.3750	-028.2	-028.8	-029.4	-030.0	-030.6
15.0000	-031.2	-031.7	-032.1	-032.6	-033.0
15.6250	-033.4	-033.8	-034.1	-034.4	-034.6
16.2500	-034.8	-034.9	-035.0	-035.0	-034.9
16.8750	-034.8	-034.6	-034.4	-034.2	-033.9
17.5000	-033.5	-033.1	-032.7	-032.3	-031.8
18.1250	-031.2	-030.7	-030.2	-029.6	-029.0
18.7500	-028.5	-027.9	-027.4	-026.8	-026.3
19.3750	-025.8	-025.3	-024.9	-024.4	-024.0
20.0000	-023.6	-023.2	-022.9	-022.6	-022.4
20.6250	-022.1	-022.0	-021.8	-021.6	-021.6
21.2500	-021.5	-021.4	-021.4	-021.4	-021.5
21.8750	-021.5	-021.6	-021.8	-021.9	-022.1
22.5000	-022.3	-022.6	-022.9	-023.2	-023.5
23.1250	-023.8	-024.2	-024.6	-025.0	-025.4
23.7500	-025.7	-026.2	-026.5	-026.8	-027.1
24.3750	-027.4	-027.8	-028.0	-028.2	-028.4
25.0000	-028.5	-028.7	-028.7	-028.7	-028.7
25.6250	-028.5	-028.3	-028.0	-027.5	-027.0
26.2500	-026.3	-025.6	-024.8	-023.8	-022.9
26.8750	-021.8	-020.2	-019.6	-018.5	-017.3
27.5000	-016.1	-014.9	-013.8	-012.7	-011.6
28.1250	-010.6	-009.6	-008.8	-007.9	-007.2
28.7500	-006.5	-005.9	-005.4	-004.9	-004.5
29.3750	-004.2	-003.9	-003.8	-003.7	-003.6
30.0000	-003.6	-003.6	-003.7	-003.8	-003.9
30.6250	-004.1	-004.2	-004.4	-004.5	-004.6
31.2500	-004.8	-004.9	-004.9	-005.0	-005.0
31.8750	-005.0	-005.0	-004.9	-004.9	-004.7
32.5000	-004.6	-004.4	-004.2	-003.9	-003.8
33.1250	-003.5	-003.2	-002.9	-002.6	-002.2
33.7500	-001.9	-001.5	-001.1	-000.7	-000.3
34.3750	+000.0	+000.4	+000.9	+001.3	+001.7
35.0000	+002.1	+002.6	+003.0	+003.4	+003.8
35.6250	+004.2	+004.6	+004.9	+005.3	+005.5
36.2500	+005.7	+006.1	+006.2	+006.4	+006.5
36.8750	+006.6	+006.7	+006.7	+006.7	+006.7

VARIABLE	PAX1	N004				
37.5000		+006.6	+006.5	+006.4	+006.2	+005.9
38.1250		+005.7	+005.4	+005.2	+004.8	+004.5
38.7500		+004.2	+003.8	+003.4	+003.1	+002.7
39.3750		+002.3	+002.0	+001.6	+001.3	+001.0
40.0000		+000.6	+000.4	+000.1	+000.0	-000.1
40.6250		-000.3	-000.4	-000.5	-000.6	-000.6
41.2500		-000.6	-000.5	-000.4	-000.4	-000.3
41.8750		-000.1	+000.0	+000.1	+000.3	+000.4
42.5000		+000.6	+000.7	+000.9	+001.1	+001.2
43.1250		+001.4	+001.5	+001.7	+001.8	+001.9
43.7500		+002.0	+002.1	+002.1	+002.2	+002.3
44.3750		+002.3	+002.4	+002.5	+002.5	+002.5
45.0000		+002.5	+002.4	+002.4	+002.3	+002.3
45.6250		+002.2	+002.1	+002.1	+002.0	+001.9
46.2500		+001.8	+001.7	+001.6	+001.4	+001.2
46.8750		+001.0	+000.9	+000.7	+000.4	+000.2
47.5000		+000.0	-000.1	-000.3	-000.6	-000.8
48.1250		-001.0	-001.2	-001.3	-001.5	-001.6
48.7500		-001.7	-001.8	-001.8	-001.8	-001.8
49.3750		-001.8	-001.6	-001.6	-001.4	-001.3
50.0000		-001.1	-001.0	-000.8	-000.6	-000.4
50.6250		-000.3	-000.0	+000.1	+000.3	+000.5
51.2500		+000.7	+000.9	+001.1	+001.3	+001.5
51.8750		+001.7	+001.8	+001.9	+002.0	+002.1
52.5000		+002.1	+002.1	+002.2	+002.2	+002.2
53.1250		+002.1	+002.1	+002.1	+002.0	+002.0
53.7500		+001.9	+001.8	+001.7	+001.5	+001.4
54.3750		+001.3	+001.2	+001.0	+000.9	+000.7
55.0000		+000.6	+000.5	+000.4	+000.3	+000.1
55.6250		+000.1	+000.0	-000.0	-000.1	-000.1
56.2500		-000.2	-000.3	-000.3	-000.3	-000.4
56.8750		-000.4	-000.4	-000.5	-000.5	-000.6
57.5000		-000.6	-000.6	-000.6	-000.6	-000.6
58.1250		-000.6	-000.6	-000.6	-000.6	-000.6
58.7500		-000.6	-000.6	-000.6	-000.6	-000.5
59.3750		-000.5	-000.4	-000.4	-000.4	+000.0

3 yr. old NECK pendulum

TEST # N006

RELEASE HOLE # 9

" hgt. 84"

HEAD # 38

HEXCELL standard
VELOCITY 17.5 fps

RESULTS

HEXCELL CRUSHED TO

RESULTANT 25.5 G

T2 - T1 1.750 m. s.

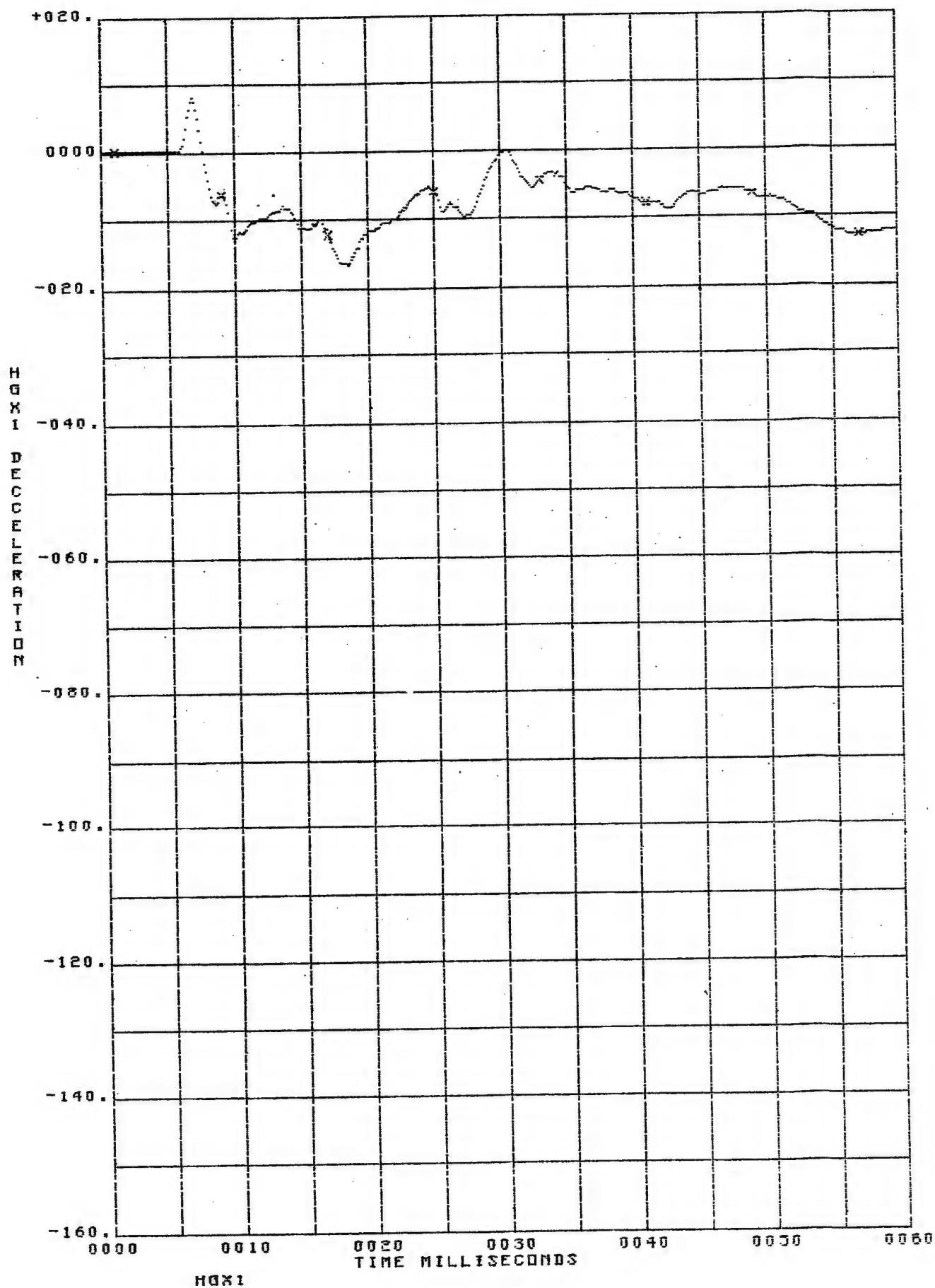
T3 - T2 1.9.000 m. s.

T4 - T3 1.750 m. s.

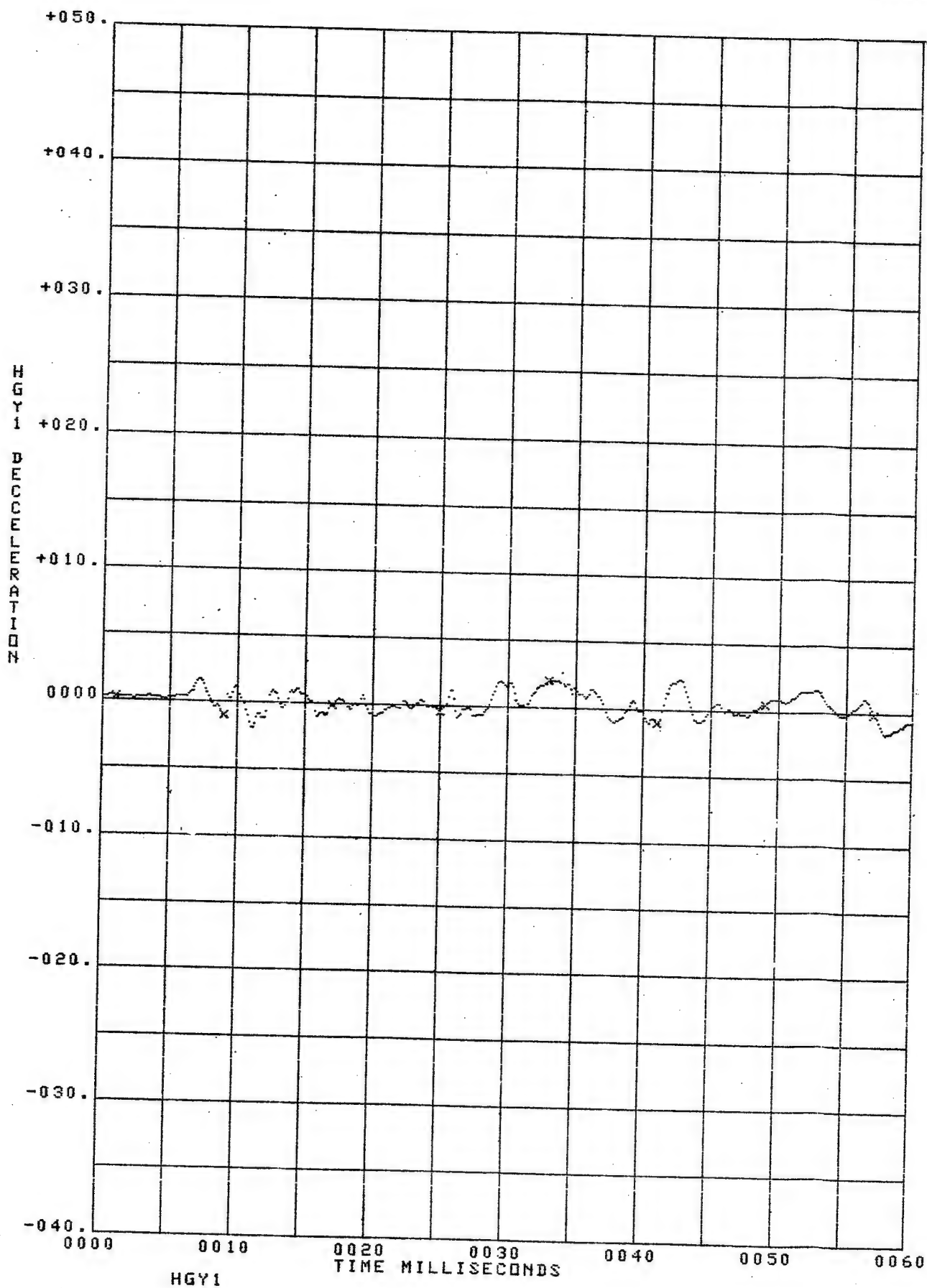
Ave T3-T2 26.287 G.

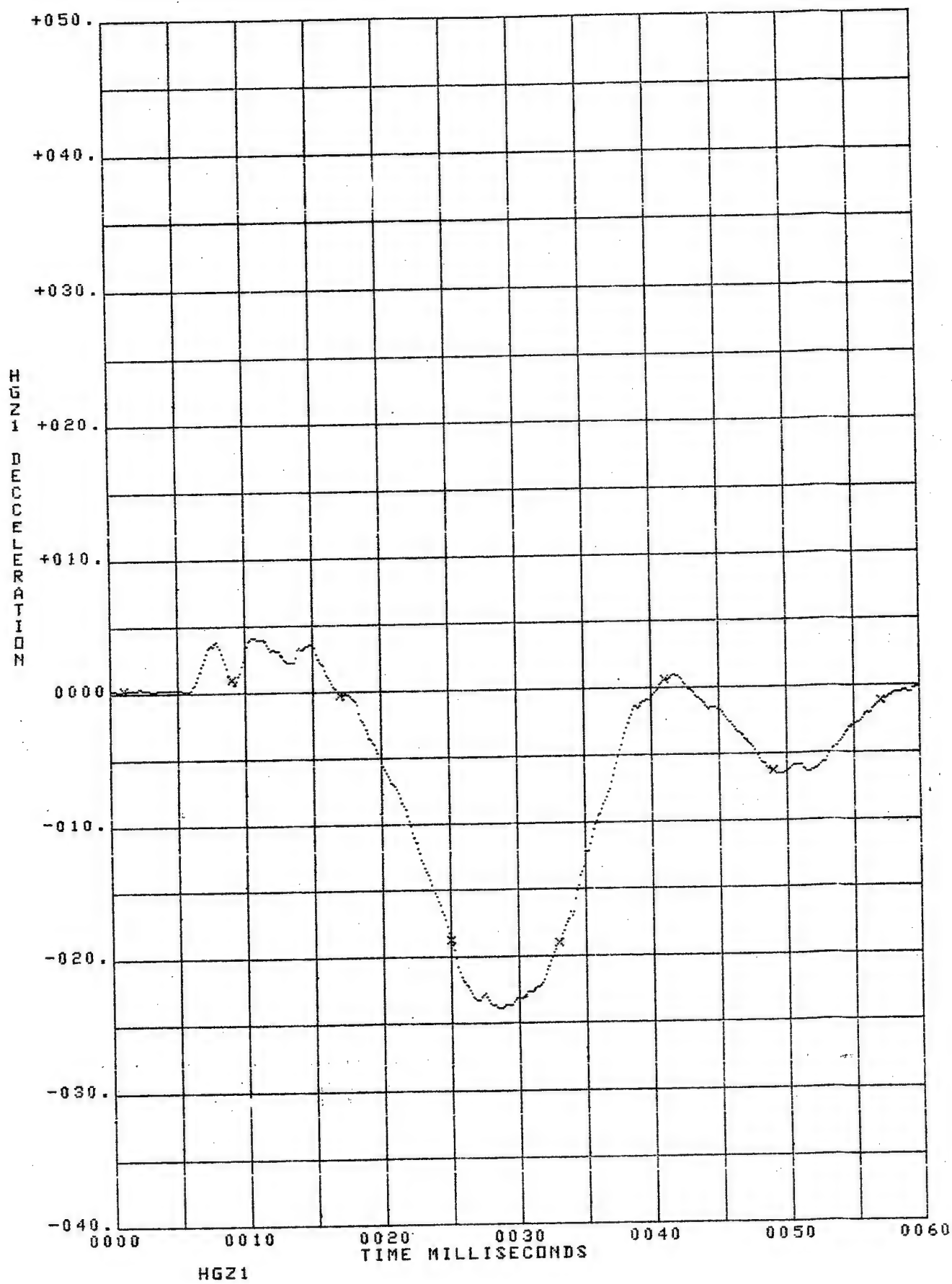
Rotation	Time	Disp
0°	0 ms	0 ins.
30°	21	2.29
60°	36	4.41
88°	66	6.01
60°	95	4.47
30°	114	2.10
0°	127	.13

NECK PENDULUM
TEST N006

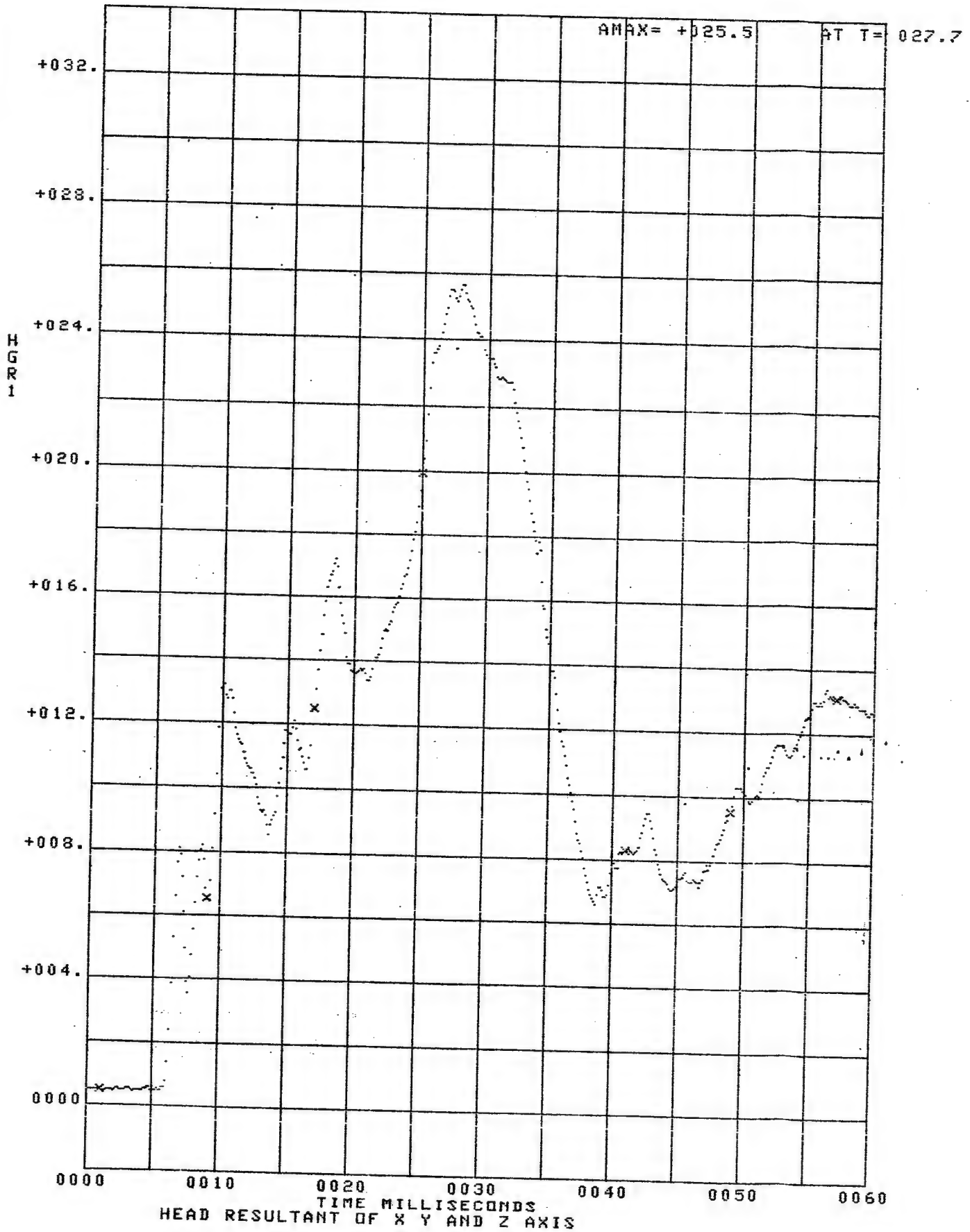


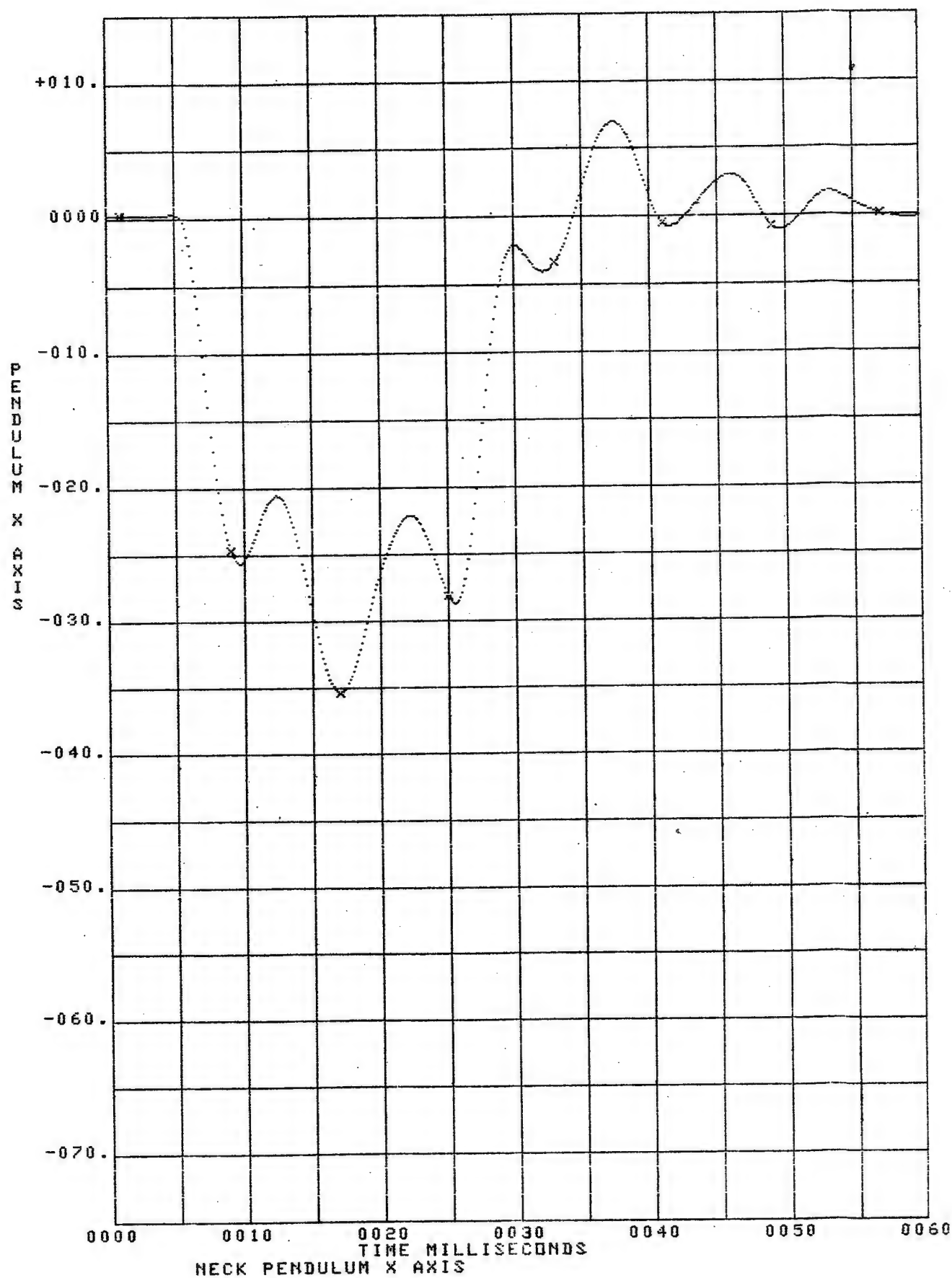
NECK PENDULUM
TEST N006





NECK PENDULUM
TEST N006





VARIABLE PAX1. N006

TIME					
0.0000	+000.0	+000.0	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.0	+000.0	+000.0	+000.0	+000.0
1.8750	+000.0	+000.0	+000.0	+000.0	+000.0
2.5000	+000.0	+000.0	+000.0	+000.0	+000.0
3.1250	+000.0	+000.0	+000.0	+000.0	+000.0
3.7500	+000.0	+000.0	+000.0	+000.0	+000.0
4.3750	+000.0	+000.1	+000.1	+000.1	+000.1
5.0000	+000.0	+000.0	-000.0	-000.2	-000.5
5.6250	-000.9	-001.4	-002.1	-002.8	-003.7
6.2500	-004.6	-005.7	-006.7	-007.9	-009.0
6.8750	-010.3	-011.5	-012.8	-014.0	-015.1
7.5000	-016.3	-017.4	-018.4	-019.4	-020.7
8.1250	-021.2	-022.0	-022.7	-023.3	-023.9
8.7500	-024.3	-024.7	-025.0	-025.3	-025.5
9.3750	-025.6	-025.8	-025.7	-025.6	-025.5
10.0000	-025.3	-025.0	-024.8	-024.5	-024.2
10.6250	-023.8	-023.4	-023.1	-022.7	-022.3
11.2500	-022.0	-021.7	-021.5	-021.3	-021.1
11.8750	-020.9	-020.8	-020.7	-020.6	-020.7
12.5000	-020.7	-020.8	-020.9	-021.3	-021.6
13.1250	-021.9	-022.2	-022.6	-023.0	-023.5
13.7500	-023.9	-024.5	-025.1	-025.7	-026.3
14.3750	-026.8	-027.4	-028.1	-028.8	-029.4
15.0000	-029.9	-030.5	-031.2	-031.7	-032.3
15.6250	-032.8	-033.3	-033.7	-034.1	-034.4
16.2500	-034.7	-034.9	-035.2	-035.4	-035.4
16.8750	-035.4	-035.4	-035.4	-035.2	-035.0
17.5000	-034.7	-034.5	-034.2	-033.9	-033.5
18.1250	-033.0	-032.6	-032.2	-031.7	-031.2
18.7500	-030.7	-030.2	-029.7	-029.2	-028.7
19.3750	-028.2	-027.7	-027.4	-026.9	-026.6
20.0000	-026.1	-025.8	-025.4	-025.0	-024.7
20.6250	-024.4	-024.1	-023.8	-023.5	-023.3
21.2500	-023.0	-022.8	-022.7	-022.5	-022.3
21.8750	-022.3	-022.2	-022.2	-022.2	-022.2
22.5000	-022.3	-022.5	-022.7	-022.9	-023.1
23.1250	-023.4	-023.7	-024.0	-024.4	-024.7
23.7500	-025.1	-025.5	-025.9	-026.3	-026.6
24.3750	-027.0	-027.3	-027.7	-028.0	-028.2
25.0000	-028.5	-028.6	-028.8	-028.9	-028.8
25.6250	-028.6	-028.4	-028.0	-027.5	-027.0
26.2500	-026.3	-025.5	-024.5	-023.6	-022.8
26.8750	-021.4	-020.9	-019.1	-017.8	-016.6
27.5000	-015.4	-014.1	-013.0	-011.8	-010.7
28.1250	-009.6	-008.6	-007.6	-006.8	-006.0
28.7500	-005.4	-004.6	-004.0	-003.6	-003.2
29.3750	-002.9	-002.6	-002.5	-002.3	-002.3
30.0000	-002.3	-002.3	-002.4	-002.6	-002.7
30.6250	-002.9	-003.1	-003.2	-003.4	-003.6
31.2500	-003.7	-003.9	-004.0	-004.1	-004.2
31.8750	-004.2	-004.3	-004.2	-004.2	-004.2
32.5000	-004.0	-003.9	-003.7	-003.6	-003.4
33.1250	-003.2	-003.0	-002.7	-002.5	-002.1
33.7500	-001.8	-001.5	-001.1	-000.7	-000.3
34.3750	+000.0	+000.4	+000.8	+001.3	+001.7
35.0000	+002.1	+002.5	+003.0	+003.4	+003.8
35.6250	+004.1	+004.6	+004.9	+005.2	+005.5
36.2500	+005.7	+006.0	+006.1	+006.3	+006.5
36.8750	+006.5	+006.6	+006.7	+006.7	+006.7

VARIABLE	PAX1	N006				
37.5000		+006.6	+006.5	+006.5	+006.3	+006.1
38.1250		+005.9	+005.7	+005.5	+005.2	+004.9
38.7500		+004.6	+004.2	+003.8	+003.5	+003.1
39.3750		+002.7	+002.3	+001.9	+001.6	+001.2
40.0000		+000.8	+000.5	+000.2	+000.0	-000.2
40.6250		-000.3	-000.5	-000.7	-000.8	-000.9
41.2500		-000.9	-000.9	-000.9	-000.9	-000.8
41.8750		-000.8	-000.7	-000.5	-000.4	-000.3
42.5000		-000.2	-000.0	+000.0	+000.2	+000.3
43.1250		+000.5	+000.6	+000.7	+000.9	+001.0
43.7500		+001.2	+001.3	+001.5	+001.6	+001.8
44.3750		+001.9	+002.0	+002.1	+002.2	+002.3
45.0000		+002.4	+002.5	+002.5	+002.6	+002.7
45.6250		+002.7	+002.7	+002.8	+002.7	+002.7
46.2500		+002.7	+002.6	+002.5	+002.4	+002.4
46.8750		+002.2	+002.1	+001.9	+001.7	+001.5
47.5000		+001.3	+001.0	+000.8	+000.6	+000.3
48.1250		+000.1	-000.0	-000.2	-000.5	-000.6
48.7500		-000.8	-000.9	-001.0	-001.1	-001.2
49.3750		-001.2	-001.2	-001.2	-001.2	-001.2
50.0000		-001.0	-001.0	-000.9	-000.8	-000.7
50.6250		-000.6	-000.5	-000.3	-000.2	-000.0
51.2500		+000.0	+000.2	+000.3	+000.5	+000.6
51.8750		+000.7	+000.8	+001.0	+001.1	+001.1
52.5000		+001.3	+001.3	+001.4	+001.4	+001.4
53.1250		+001.4	+001.4	+001.4	+001.4	+001.4
53.7500		+001.3	+001.3	+001.3	+001.1	+001.1
54.3750		+001.1	+001.0	+000.9	+000.8	+000.8
55.0000		+000.7	+000.6	+000.5	+000.5	+000.4
55.6250		+000.3	+000.3	+000.2	+000.2	+000.1
56.2500		+000.1	+000.0	+000.0	-000.0	-000.0
56.8750		-000.0	-000.1	-000.1	-000.2	-000.2
57.5000		-000.2	-000.2	-000.3	-000.3	-000.3
58.1250		-000.3	-000.3	-000.4	-000.4	-000.4
58.7500		-000.4	-000.4	-000.4	-000.4	-000.4
59.3750		-000.4	-000.4	-000.3	-000.3	+315.0

3 yr. old NECK pendulum

TEST # N007

RELEASE hole # 9

" hgt. 84"

HEAD # 38

HEXCELL standard

RESULTS

HEXCELL CRUSHED to

RESULTANT 26.7 G

T2 - T1 1.625 mv. N.

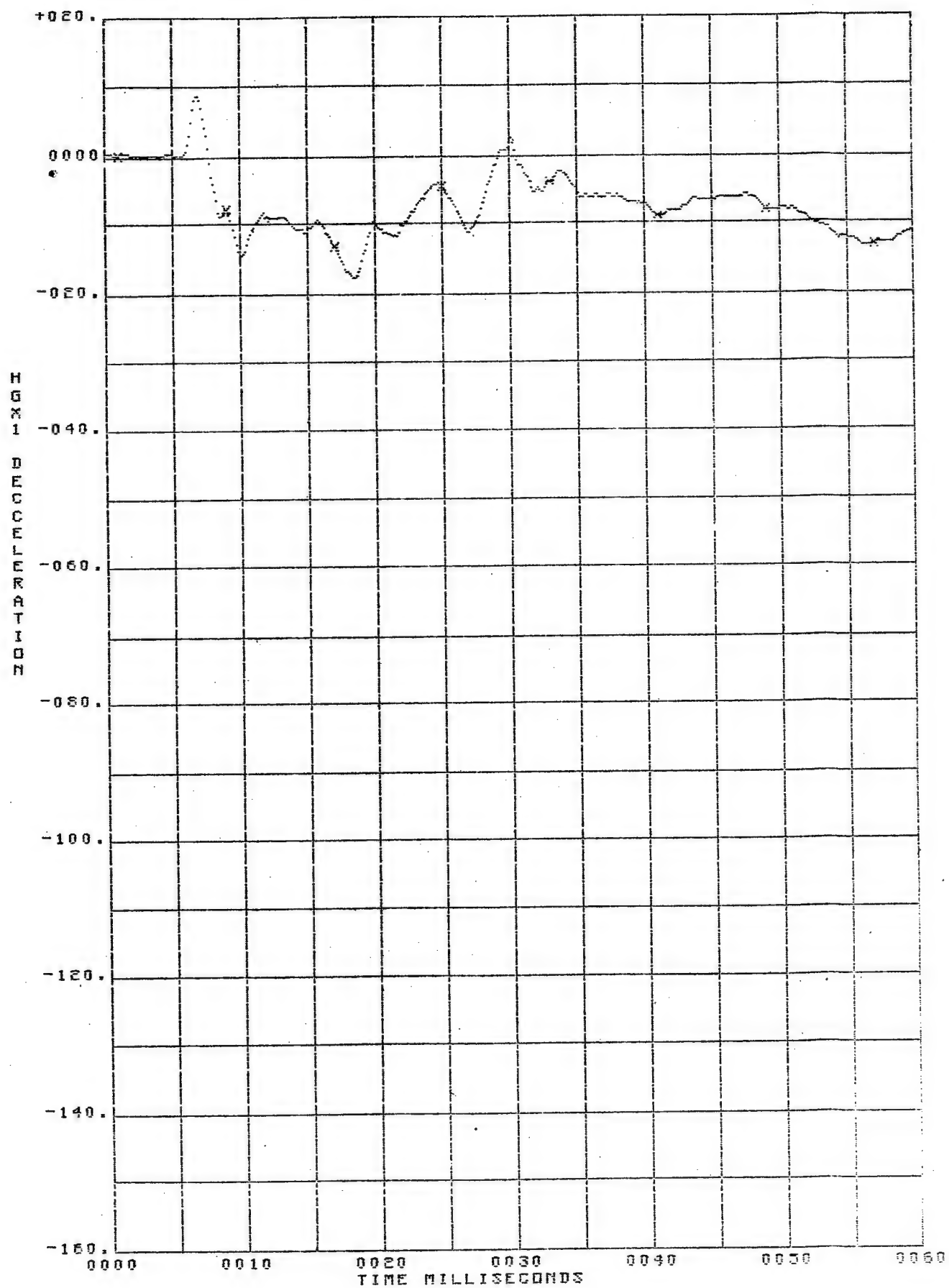
T3 - T2 19.000 mv. N.

T4 - T3 1.625 mv. N.

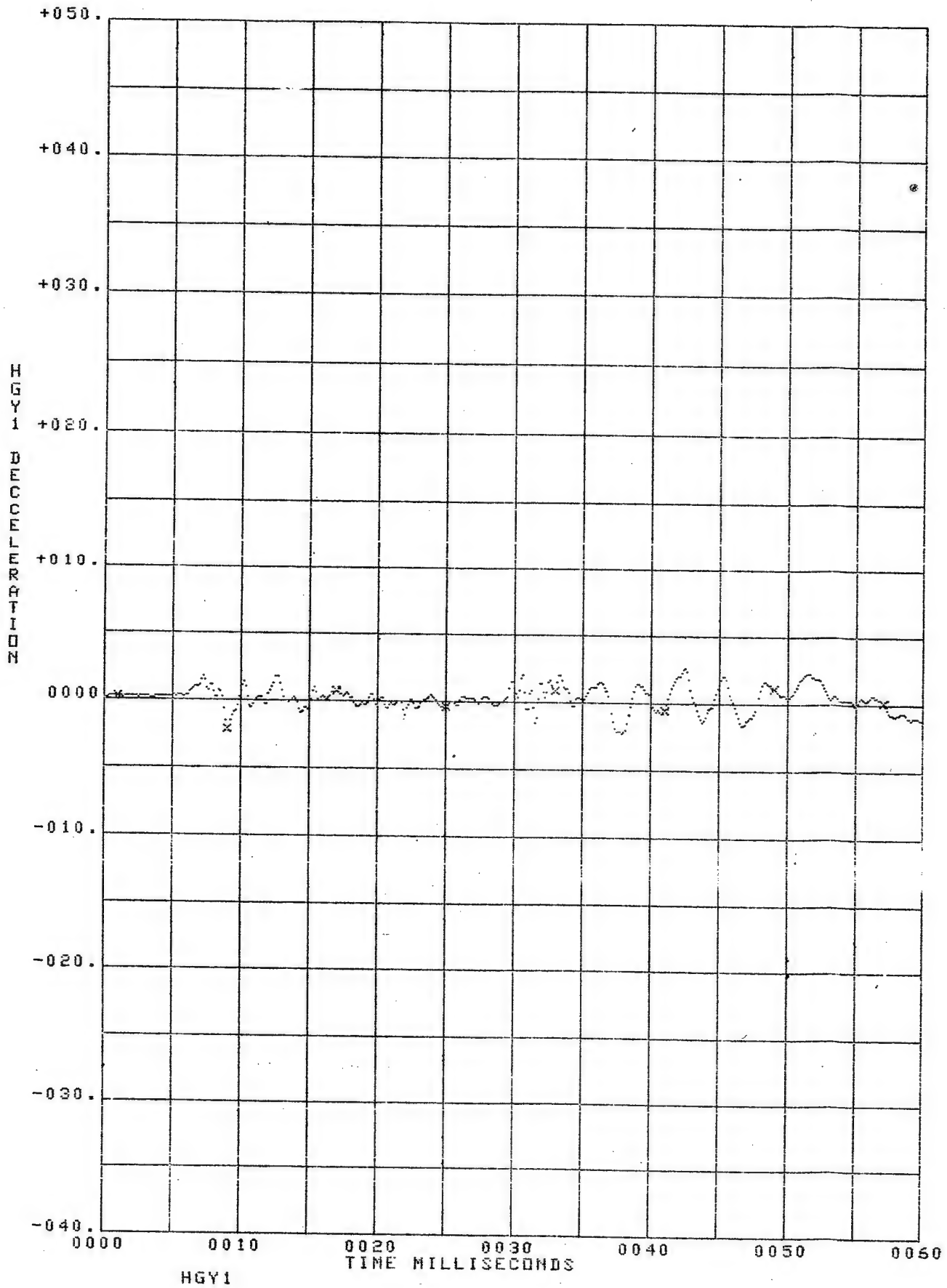
Ave T3-T2 27.161 G

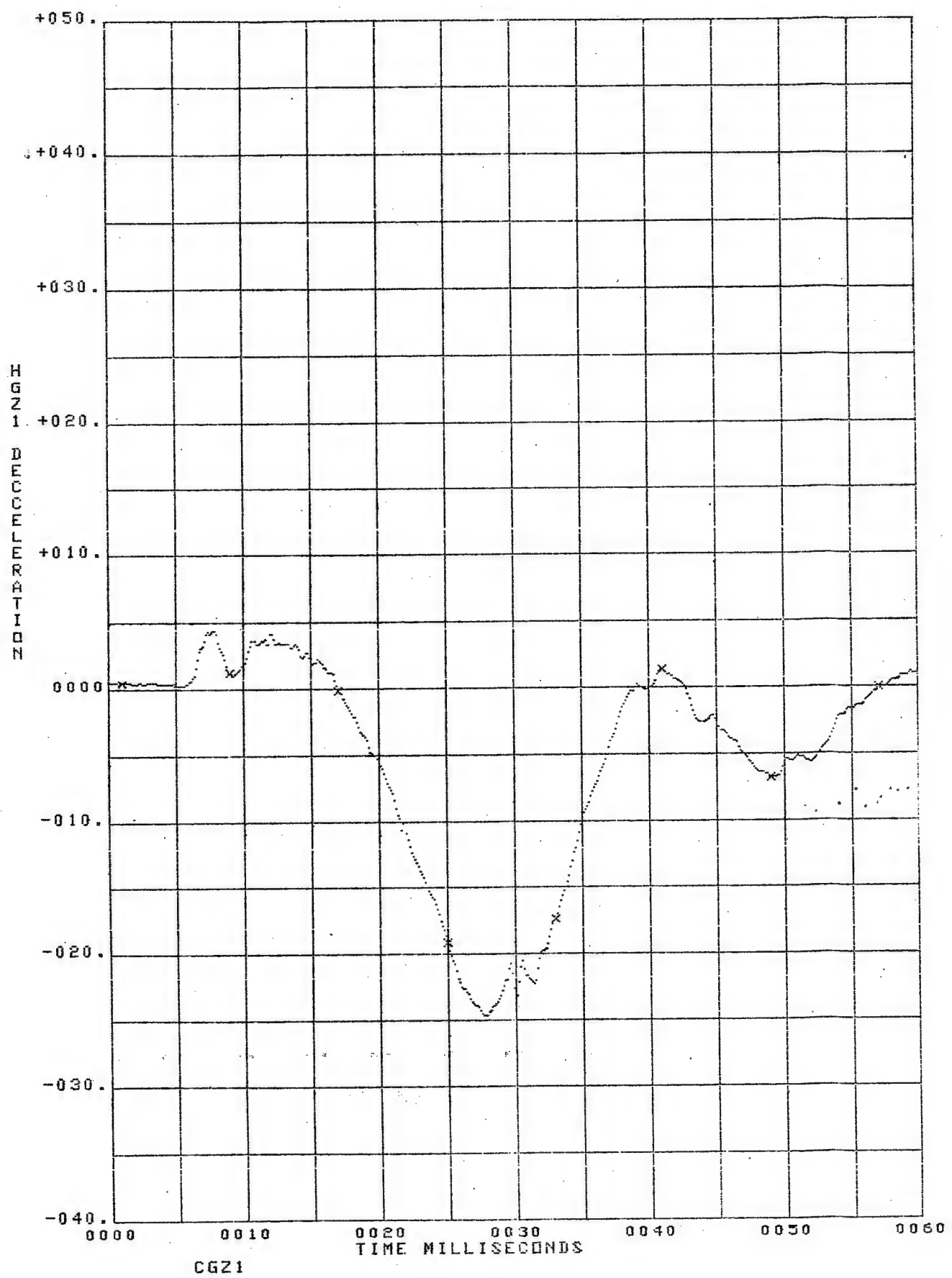
Rotation	Time	Disp
0°	0ms	0 ins.
30°	22	2.18
60°	36	4.22
85°	65	5.94
60°	97	4.45
30°	115	2.30
0°	131	.06

NECK PENDULUM
TEST N007

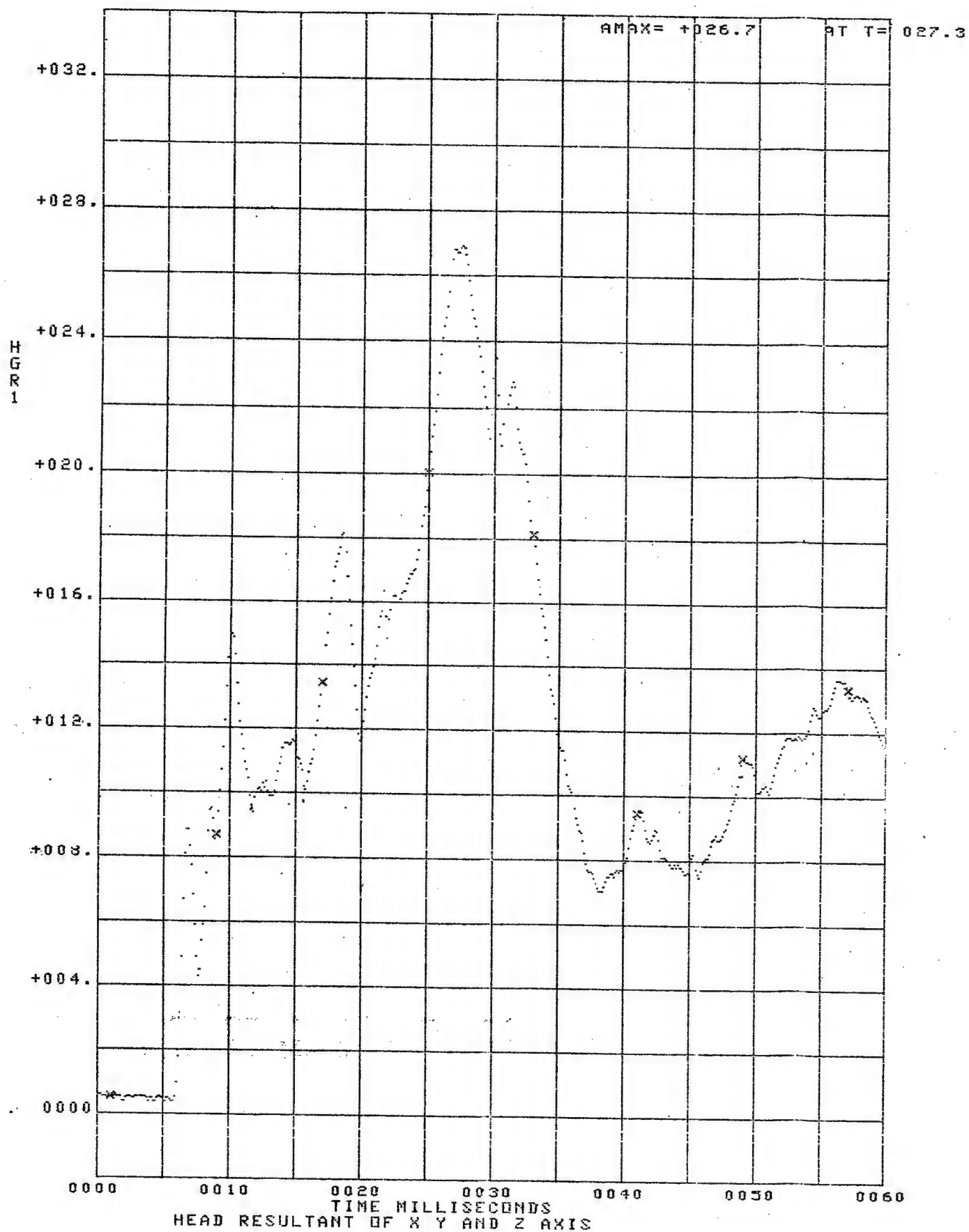


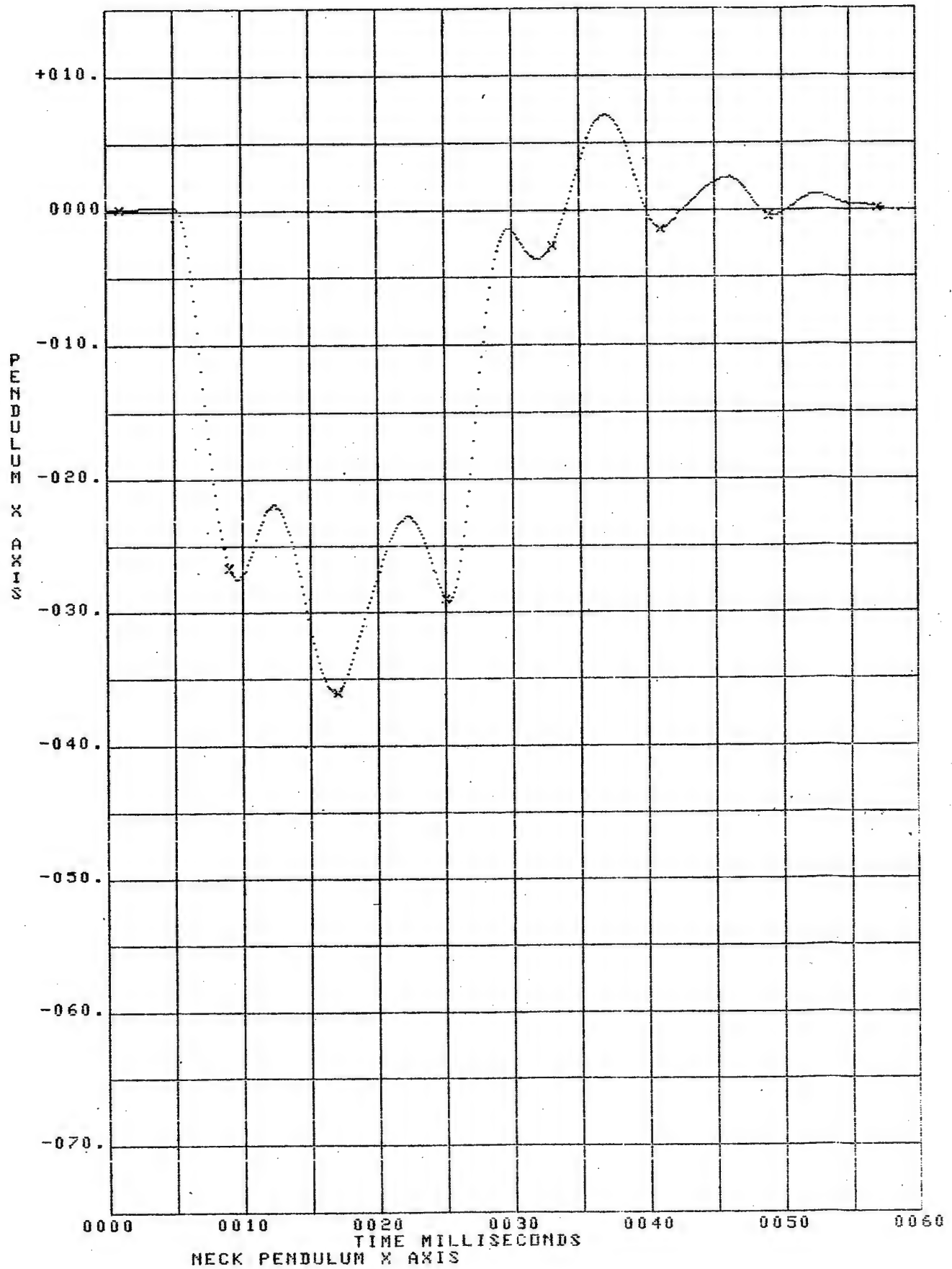
NECK PENDULUM
TEST N007





NECK PENDULUM
TEST N007





VARIABLE PAX1 N007

TIME					
0.0000	-000.1	-000.1	-000.1	-000.1	-000.1
0.6250	-000.1	-000.1	-000.0	-000.0	-000.0
1.2500	-000.0	-000.0	-000.0	-000.0	-000.0
1.8750	-000.0	-000.0	-000.0	-000.0	+000.0
2.5000	+000.0	+000.0	+000.0	+000.0	+000.0
3.1250	+000.0	+000.0	+000.0	+000.0	+000.0
3.7500	+000.0	+000.0	+000.0	+000.0	+000.0
4.3750	+000.0	+000.0	+000.0	+000.0	+000.0
5.0000	+000.0	-000.0	-000.2	-000.4	-000.9
5.6250	-001.3	-001.9	-002.7	-003.5	-004.6
6.2500	-005.6	-006.8	-007.9	-009.2	-010.6
6.8750	-012.0	-013.3	-014.4	-015.7	-016.9
7.5000	-018.2	-019.3	-020.2	-021.2	-022.3
8.1250	-023.1	-023.8	-024.5	-025.2	-025.8
8.7500	-026.3	-026.7	-027.0	-027.2	-027.4
9.3750	-027.6	-027.6	-027.6	-027.4	-027.3
10.0000	-027.1	-026.8	-026.5	-026.1	-025.8
10.6250	-025.4	-025.1	-024.6	-024.2	-023.8
11.2500	-023.4	-023.1	-022.7	-022.5	-022.3
11.8750	-022.3	-022.1	-022.0	-022.0	-022.2
12.5000	-022.3	-022.4	-022.6	-022.8	-023.2
13.1250	-023.5	-024.0	-024.3	-024.7	-025.2
13.7500	-025.7	-026.3	-026.8	-027.4	-028.1
14.3750	-028.7	-029.3	-029.9	-030.6	-031.2
15.0000	-031.8	-032.3	-032.8	-033.4	-033.9
15.6250	-034.3	-034.6	-034.9	-035.2	-035.5
16.2500	-035.7	-035.7	-035.9	-036.0	-036.1
16.8750	-036.1	-035.9	-035.7	-035.6	-035.3
17.5000	-035.1	-034.7	-034.3	-033.9	-033.5
18.1250	-033.1	-032.6	-032.2	-031.8	-031.4
19.7500	-031.0	-030.6	-030.1	-029.7	-029.3
19.3750	-028.9	-028.5	-028.1	-027.7	-027.3
20.0000	-026.9	-026.5	-026.1	-025.7	-025.4
20.6250	-025.1	-024.8	-024.5	-024.2	-023.9
21.2500	-023.7	-023.5	-023.3	-023.1	-023.1
21.8750	-022.9	-022.9	-022.9	-022.9	-023.0
22.5000	-023.1	-023.2	-023.4	-023.7	-023.9
23.1250	-024.2	-024.5	-024.8	-025.2	-025.6
23.7500	-026.0	-026.3	-026.8	-027.1	-027.6
24.3750	-027.9	-028.2	-028.5	-028.9	-029.0
25.0000	-029.2	-029.2	-029.2	-028.9	-028.6
25.6250	-028.2	-027.6	-027.0	-026.2	-025.3
26.2500	-024.3	-023.2	-022.1	-020.9	-019.7
26.8750	-018.5	-017.2	-015.9	-014.6	-013.4
27.5000	-012.2	-011.0	-009.9	-008.8	-007.7
28.1250	-006.8	-005.9	-005.1	-004.4	-003.8
28.7500	-003.2	-002.8	-002.4	-002.1	-001.9
29.3750	-001.7	-001.6	-001.5	-001.6	-001.6
30.0000	-001.8	-001.9	-002.1	-002.3	-002.5
30.6250	-002.7	-002.9	-003.1	-003.3	-003.5
31.2500	-003.6	-003.6	-003.8	-003.8	-003.8
31.8750	-003.8	-003.8	-003.6	-003.6	-003.5
32.5000	-003.3	-003.2	-002.9	-002.7	-002.5
33.1250	-002.2	-001.9	-001.6	-001.2	-000.9
33.7500	-000.5	-000.1	+000.2	+000.6	+001.0
34.3750	+001.5	+001.9	+002.3	+002.8	+003.2
35.0000	+003.6	+004.0	+004.3	+004.7	+005.1
35.6250	+005.4	+005.7	+005.9	+006.2	+006.3
36.2500	+006.5	+006.6	+006.7	+006.7	+006.8
36.8750	+006.8	+006.7	+006.7	+006.6	+006.4

VARIABLE	PAX1	N007				
37.5000		+006.3	+006.1	+005.9	+005.7	+005.4
38.1250		+005.1	+004.8	+004.4	+004.0	+003.6
38.7500		+003.2	+002.8	+002.3	+001.9	+001.5
39.3750		+001.0	+000.6	+000.3	+000.0	-000.3
40.0000		-000.6	-000.8	-001.0	-001.2	-001.3
40.6250		-001.4	-001.5	-001.5	-001.5	-001.4
41.2500		-001.4	-001.3	-001.2	-001.0	-001.0
41.8750		-000.8	-000.7	-000.5	-000.4	-000.2
42.5000		-000.1	-000.0	+000.0	+000.1	+000.3
43.1250		+000.4	+000.5	+000.6	+000.7	+000.9
43.7500		+001.0	+001.0	+001.2	+001.4	+001.4
44.3750		+001.5	+001.5	+001.7	+001.7	+001.8
45.0000		+001.8	+001.9	+002.0	+002.0	+002.1
45.6250		+002.1	+002.1	+002.1	+002.1	+002.1
46.2500		+002.0	+002.0	+001.9	+001.8	+001.7
46.8750		+001.6	+001.4	+001.3	+001.1	+000.9
47.5000		+000.8	+000.6	+000.4	+000.2	+000.1
48.1250		+000.0	-000.1	-000.3	-000.4	-000.5
48.7500		-000.5	-000.6	-000.6	-000.6	-000.6
49.3750		-000.6	-000.6	-000.5	-000.5	-000.4
50.0000		-000.3	-000.2	-000.1	-000.1	+000.0
50.6250		+000.0	+000.1	+000.3	+000.3	+000.4
51.2500		+000.4	+000.6	+000.6	+000.7	+000.7
51.8750		+000.8	+000.8	+000.9	+000.9	+000.9
52.5000		+000.9	+000.8	+000.8	+000.8	+000.7
53.1250		+000.7	+000.7	+000.6	+000.6	+000.5
53.7500		+000.4	+000.4	+000.3	+000.3	+000.3
54.3750		+000.3	+000.2	+000.2	+000.1	+000.1
55.0000		+000.1	+000.1	+000.1	+000.1	+000.1
55.6250		+000.1	+000.1	+000.1	+000.1	+000.1
56.2500		+000.0	+000.0	+000.0	+000.0	+000.0
56.8750		-000.0	-000.1	-000.1	-000.1	-000.1
57.5000		-000.1	-000.2	-000.2	-000.2	-000.2
58.1250		-000.3	-000.3	-000.3	-000.3	-000.3
58.7500		-000.3	-000.3	-000.3	-000.3	-000.2
59.3750		-000.2	-000.1	-000.1	-000.1	+000.0

3 yr. old NECK pendulum

TEST # N001

RELEASE hole # 9

" hgt. 84"

HEAD # 39

HEXCELL STANDARD

Velocity 17.5 fps

RESULTS

HEXCELL CRUSHED TO

Resultant 25.5 G

T2 - T1 1.625 m.s.

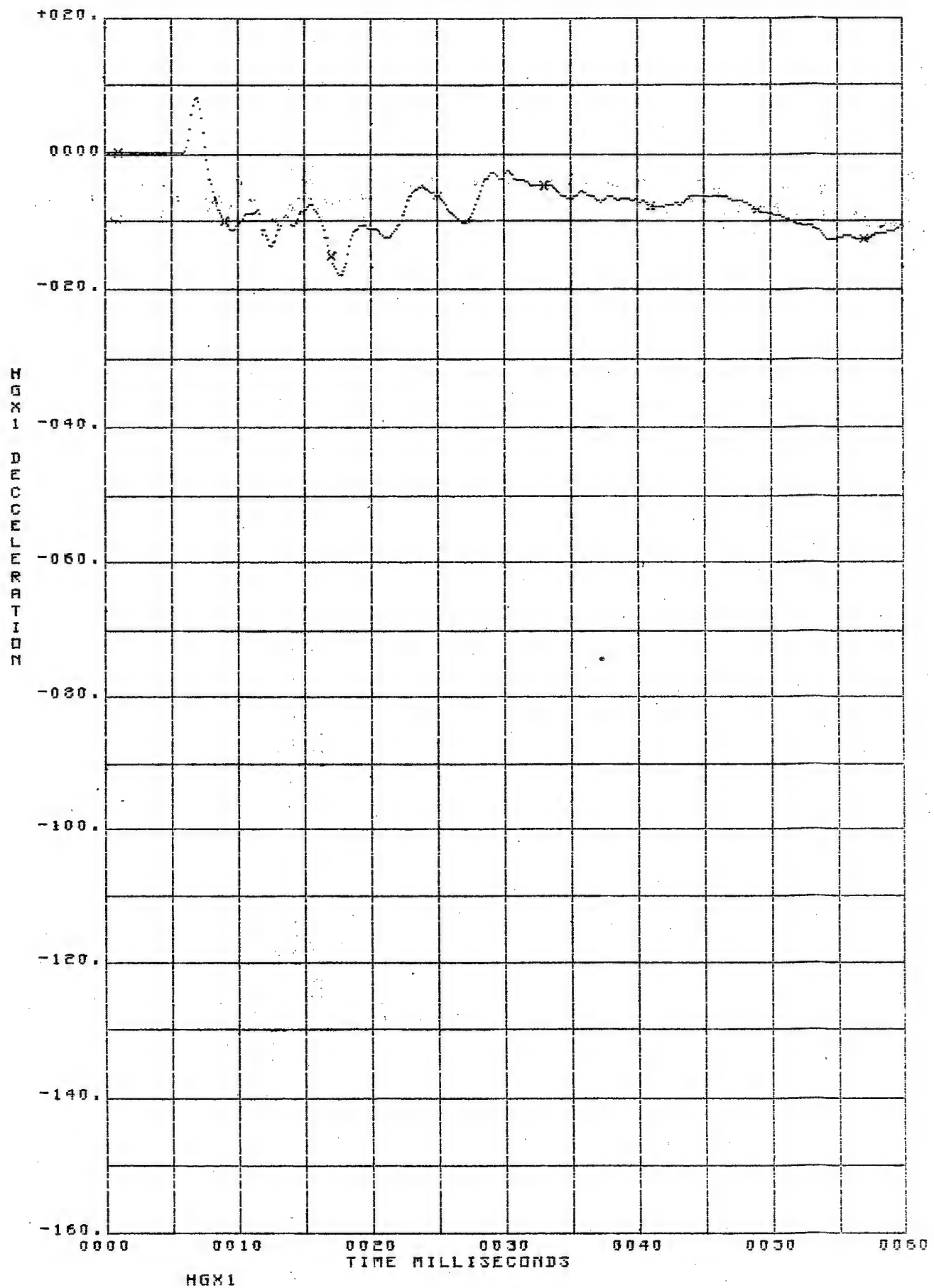
T3 - T2 19.000 m.s.

T4 - T3 1.875 m.s.

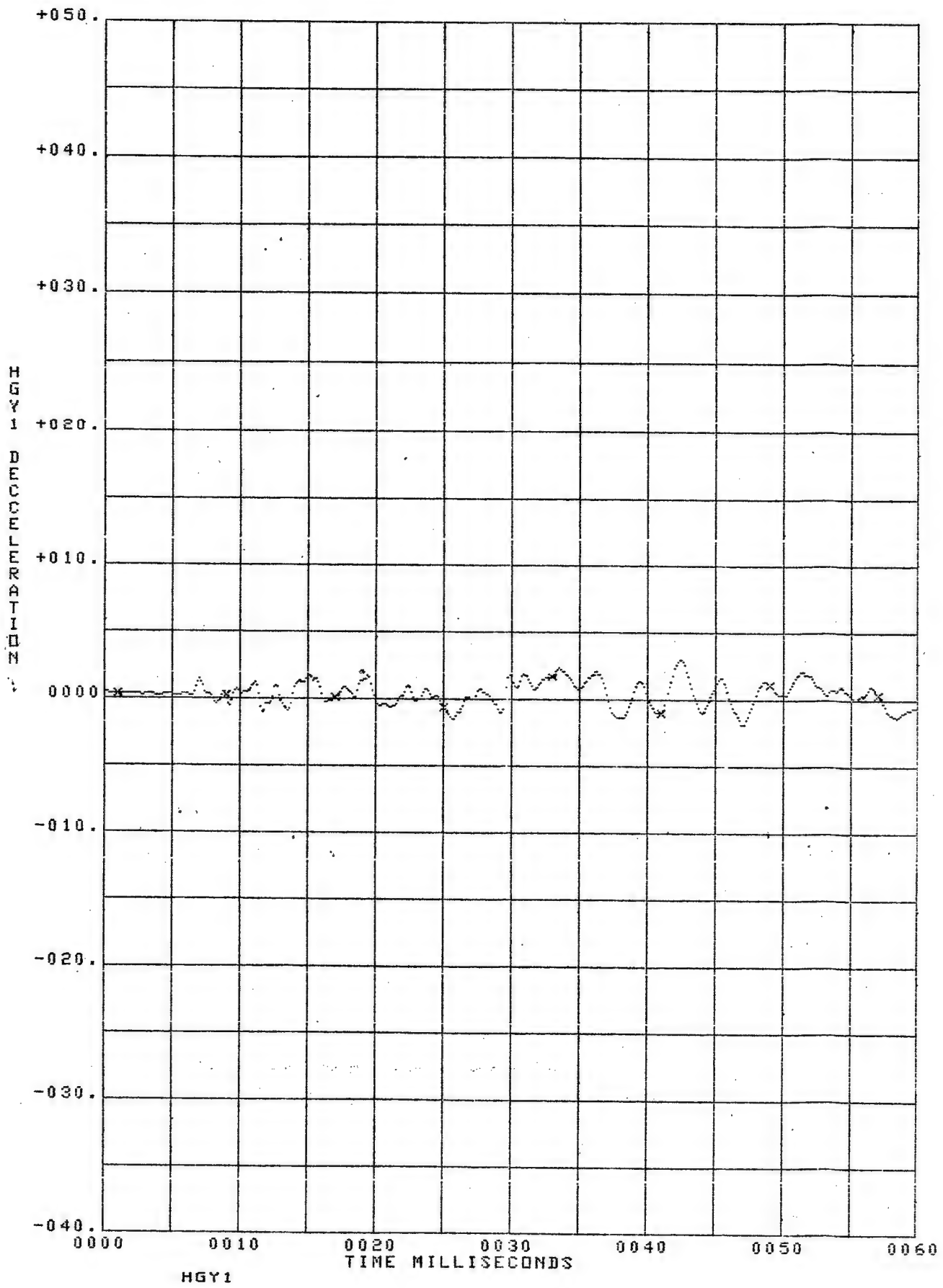
Ave T3-T2 26.864 G.

Rotation	Time	Disp
0°	0 m.s.	0 ins.
30°	21	2.02
60°	36	4.21
82.5°	63	5.76
60°	95	4.34
30°	115	1.90
0°	128	.13

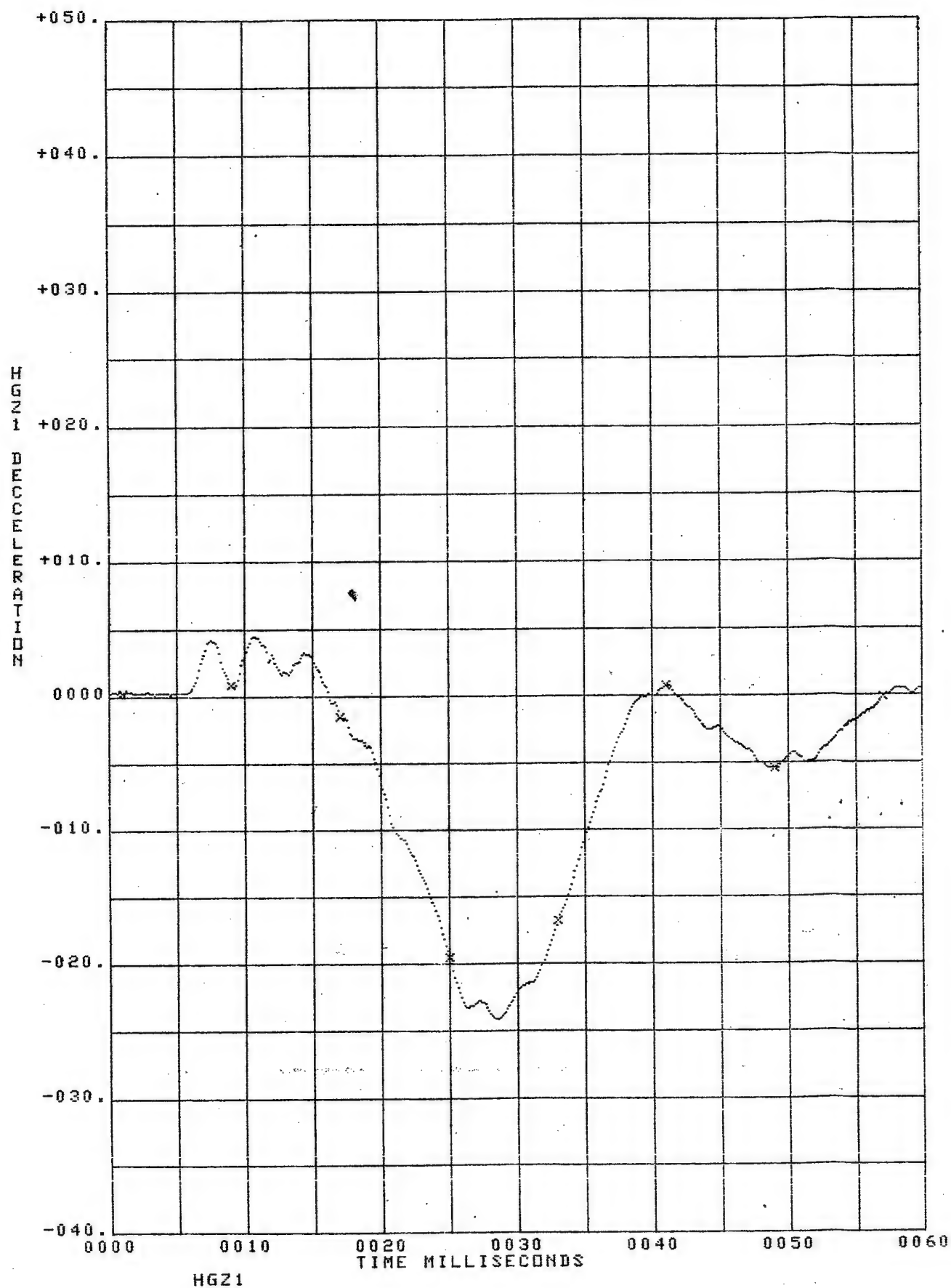
NECK PENDULUM
TEST N001



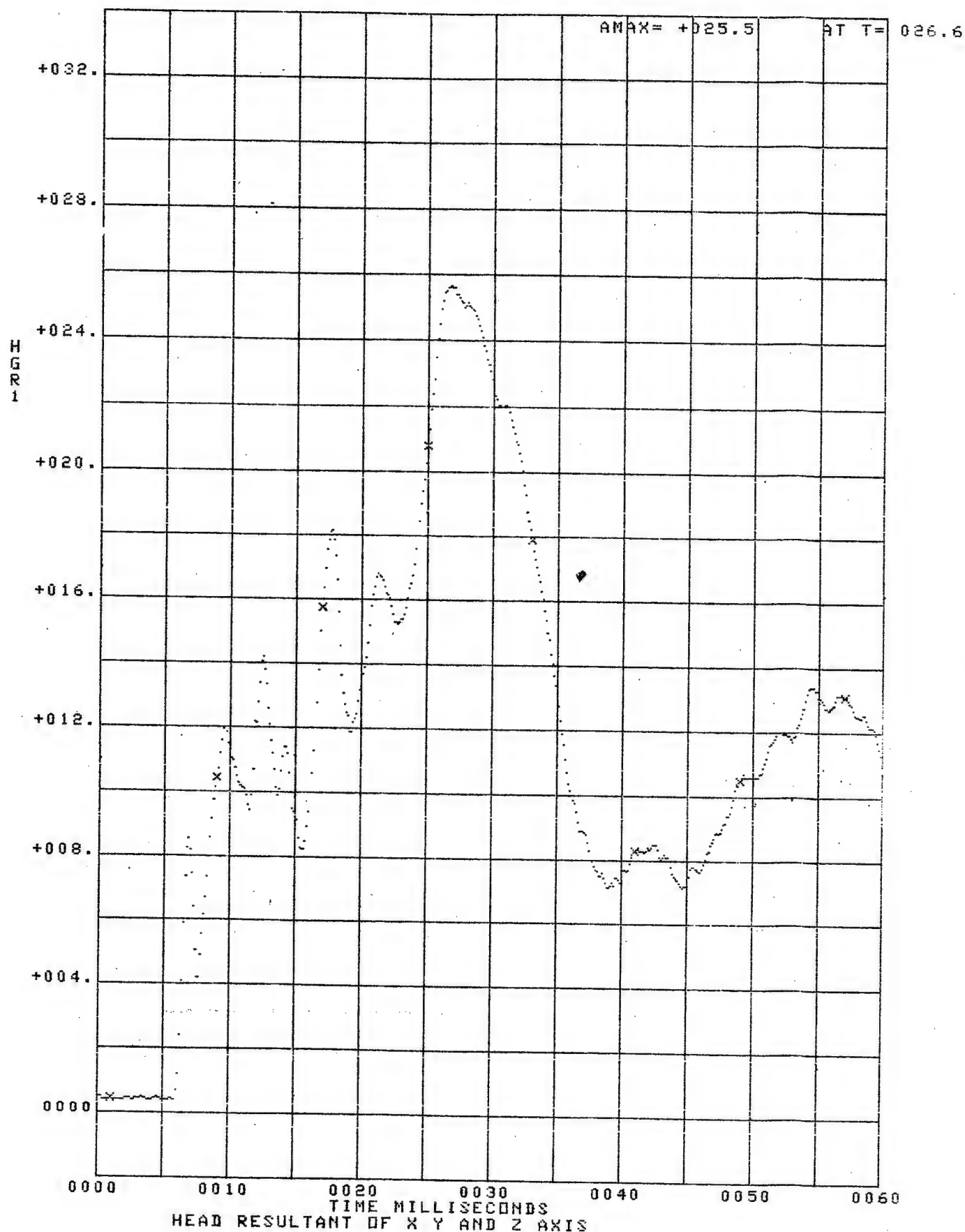
NECK PENDULUM
TEST N001

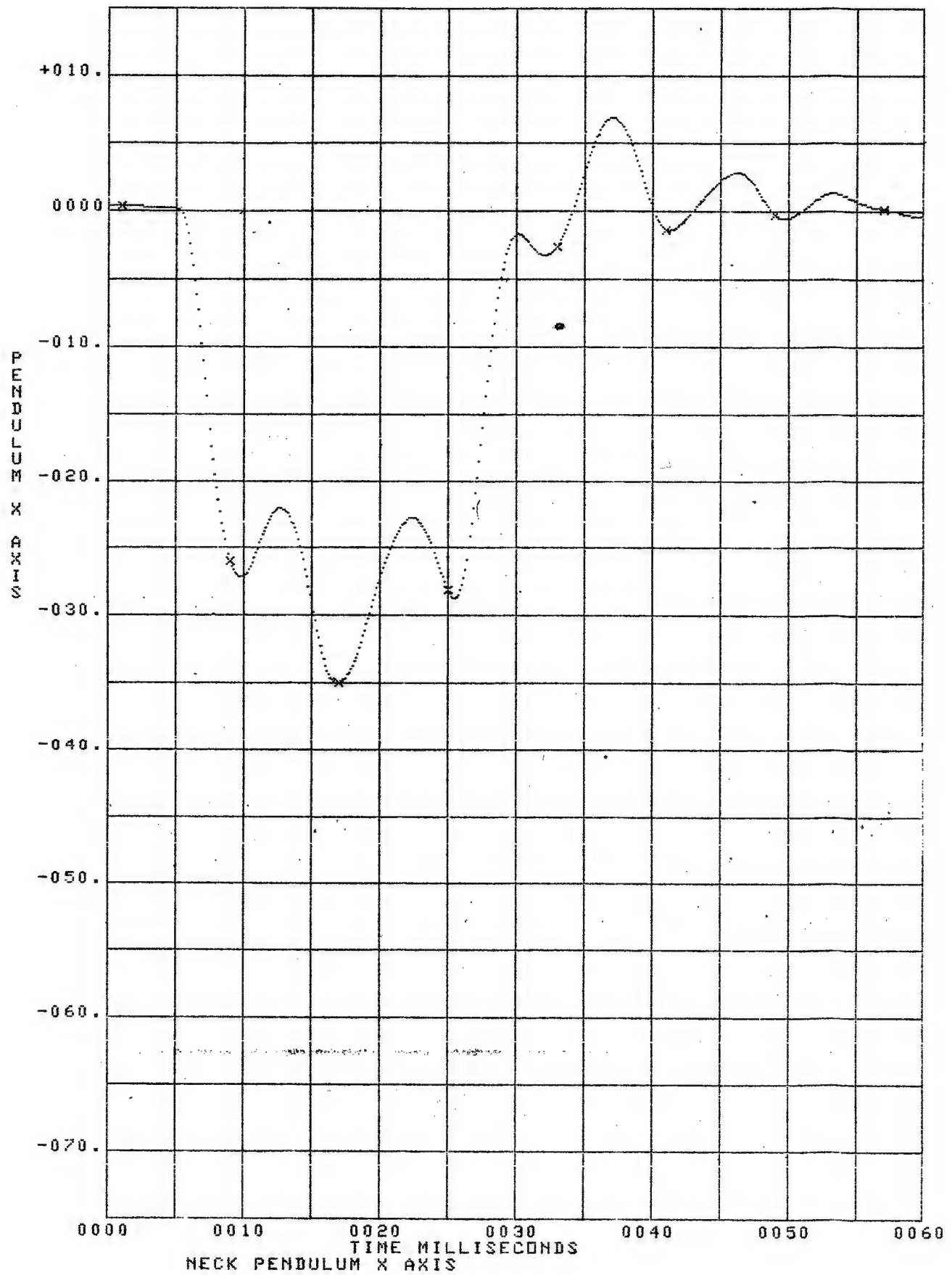


NECK PENDULUM
TEST N001



NECK PENDULUM
TEST N001





TIME					
0.0000	+000.2	+000.2	+000.2	+000.2	+000.1
0.6250	+000.2	+000.1	+000.1	+000.1	+000.1
1.2500	+000.1	+000.1	+000.1	+000.1	+000.1
1.8750	+000.1	+000.1	+000.1	+000.1	+000.1
2.5000	+000.0	+000.0	+000.0	+000.0	+000.0
3.1250	+000.0	+000.0	+000.0	+000.0	+000.0
3.7500	+000.0	+000.0	+000.0	+000.0	+000.0
4.3750	+000.0	+000.0	+000.0	+000.0	+000.0
5.0000	-000.0	-000.0	-000.2	-000.3	-000.7
5.6250	-001.2	-001.8	-002.5	-003.4	-004.2
6.2500	-005.3	-006.4	-007.5	-008.7	-010.0
6.8750	-011.2	-012.5	-013.8	-015.1	-016.2
7.5000	-017.5	-018.5	-019.6	-020.6	-021.5
8.1250	-022.4	-023.2	-023.9	-024.5	-025.2
8.7500	-025.6	-026.1	-026.5	-026.7	-027.0
9.3750	-027.1	-027.2	-027.3	-027.3	-027.2
10.0000	-027.1	-026.9	-026.7	-026.5	-026.2
10.6250	-025.8	-025.5	-025.2	-024.8	-024.5
11.2500	-024.2	-023.9	-023.6	-023.3	-023.0
11.8750	-022.7	-022.5	-022.4	-022.3	-022.2
12.5000	-022.2	-022.2	-022.2	-022.3	-022.3
13.1250	-022.5	-022.8	-023.1	-023.3	-023.6
13.7500	-024.0	-024.5	-025.0	-025.5	-026.0
14.3750	-026.7	-027.3	-028.0	-028.6	-029.2
15.0000	-029.9	-030.5	-031.2	-031.7	-032.4
15.6250	-032.8	-033.4	-033.8	-034.2	-034.4
16.2500	-034.7	-034.9	-035.0	-035.0	-035.0
16.8750	-035.0	-035.0	-035.0	-034.9	-034.7
17.5000	-034.5	-034.3	-034.1	-033.8	-033.5
18.1250	-033.2	-032.9	-032.5	-032.1	-031.6
18.7500	-031.2	-030.8	-030.3	-029.9	-029.4
19.3750	-029.0	-028.6	-028.1	-027.7	-027.3
20.0000	-026.9	-026.6	-026.2	-025.9	-025.6
20.6250	-025.2	-025.0	-024.7	-024.4	-024.1
21.2500	-023.8	-023.6	-023.4	-023.2	-023.1
21.8750	-023.0	-022.9	-022.8	-022.8	-022.8
22.5000	-022.9	-023.0	-023.1	-023.3	-023.4
23.1250	-023.7	-023.9	-024.2	-024.5	-024.8
23.7500	-025.2	-025.5	-025.9	-026.3	-026.6
24.3750	-026.9	-027.3	-027.7	-028.0	-028.3
25.0000	-028.5	-028.7	-028.8	-028.8	-028.8
25.6250	-028.6	-028.3	-027.8	-027.4	-026.7
26.2500	-026.0	-025.2	-024.2	-023.2	-022.1
26.8750	-021.0	-019.8	-018.6	-017.4	-016.2
27.5000	-015.0	-013.8	-012.6	-011.5	-010.4
28.1250	-009.3	-008.4	-007.5	-006.6	-005.8
28.7500	-005.1	-004.5	-003.9	-003.4	-002.9
29.3750	-002.6	-002.3	-002.1	-002.0	-001.9
30.0000	-001.8	-001.9	-002.0	-002.0	-002.1
30.6250	-002.3	-002.5	-002.6	-002.8	-002.9
31.2500	-003.1	-003.2	-003.3	-003.4	-003.4
31.8750	-003.4	-003.5	-003.4	-003.4	-003.3
32.5000	-003.2	-003.1	-002.9	-002.8	-002.5
33.1250	-002.3	-002.1	-001.8	-001.5	-001.2
33.7500	-000.8	-000.5	-000.1	+000.2	+000.5
34.3750	+001.0	+001.4	+001.8	+002.2	+002.6
35.0000	+003.0	+003.4	+003.8	+004.1	+004.5
35.6250	+004.9	+005.2	+005.5	+005.7	+006.0
36.2500	+006.1	+006.3	+006.5	+006.5	+006.6
36.8750	+006.6	+006.6	+006.6	+006.5	+006.4

VARIABLE	PAX1	N001				
37.5000		+006.3	+006.1	+006.0	+005.7	+005.5
38.1250		+005.2	+004.9	+004.6	+004.3	+003.9
38.7500		+003.5	+003.2	+002.7	+002.3	+001.9
39.3750		+001.5	+001.1	+000.7	+000.3	+000.0
40.0000		-000.2	-000.5	-000.8	-001.0	-001.2
40.6250		-001.3	-001.5	-001.5	-001.6	-001.7
41.2500		-001.6	-001.5	-001.5	-001.4	-001.4
41.8750		-001.2	-001.1	-001.0	-000.8	-000.7
42.5000		-000.5	-000.4	-000.2	-000.1	-000.0
43.1250		+000.1	+000.3	+000.4	+000.5	+000.7
43.7500		+000.8	+001.0	+001.1	+001.3	+001.4
44.3750		+001.5	+001.6	+001.8	+001.9	+002.0
45.0000		+002.1	+002.2	+002.2	+002.3	+002.4
45.6250		+002.4	+002.5	+002.5	+002.5	+002.5
46.2500		+002.5	+002.5	+002.5	+002.4	+002.4
46.8750		+002.2	+002.1	+002.0	+001.9	+001.7
47.5000		+001.5	+001.3	+001.1	+000.9	+000.7
48.1250		+000.5	+000.3	+000.1	-000.0	-000.2
48.7500		-000.3	-000.4	-000.5	-000.6	-000.7
49.3750		-000.7	-000.7	-000.7	-000.7	-000.7
50.0000		-000.7	-000.5	-000.5	-000.4	-000.3
50.6250		-000.3	-000.2	-000.1	-000.0	+000.0
51.2500		+000.1	+000.2	+000.3	+000.4	+000.5
51.8750		+000.6	+000.7	+000.7	+000.8	+000.9
52.5000		+001.0	+001.0	+001.0	+001.1	+001.1
53.1250		+001.1	+001.1	+001.1	+001.0	+001.0
53.7500		+001.0	+000.9	+000.8	+000.8	+000.8
54.3750		+000.7	+000.7	+000.6	+000.5	+000.5
55.0000		+000.4	+000.3	+000.3	+000.3	+000.2
55.6250		+000.2	+000.2	+000.1	+000.0	+000.0
56.2500		+000.0	+000.0	+000.0	-000.0	-000.0
56.8750		-000.0	-000.0	-000.0	-000.1	-000.1
57.5000		-000.2	-000.2	-000.2	-000.2	-000.3
58.1250		-000.3	-000.3	-000.4	-000.4	-000.5
58.7500		-000.5	-000.5	-000.5	-000.5	-000.5
59.3750		-000.6	-000.5	-000.5	-000.5	+313.4

3 yr. old NECK pendulum

TEST # N003

RELEASE hole # 9

" hgt. 84"

HEAD # 39

HEXCELL standard

Velocity 17.5 fps

RESULTS

HEXCELL CRUSHED TO

RESULTANT 25.200 G

T2 - T1 1.625 m. s.

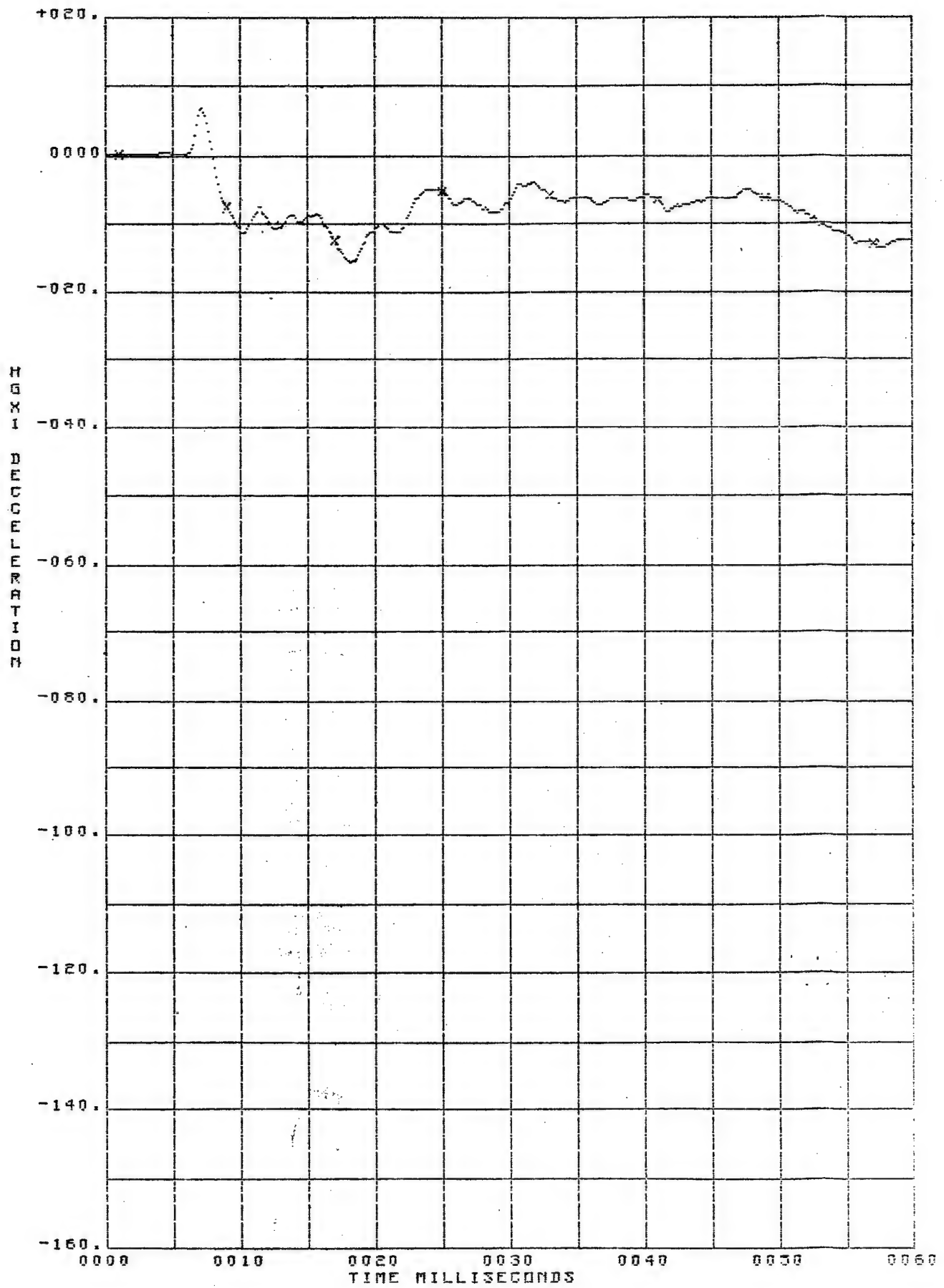
T3 - T2 20.125 m. s.

T4 - T3 3.875 m. s.

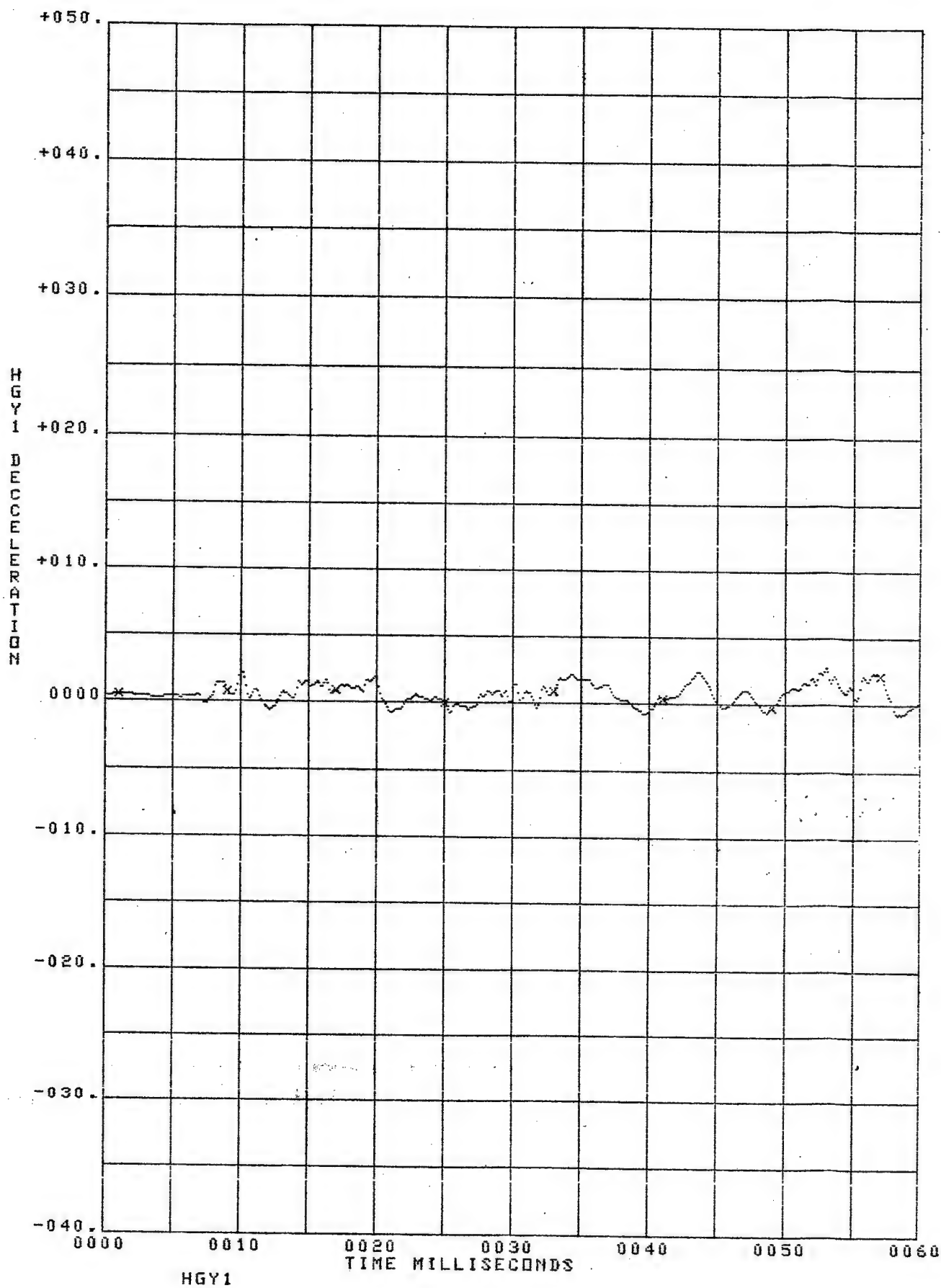
AVE T3-T2 24.747 G.

Rotation	Time	Disp
0°	0ms	0 ins
30°	22	2.08
60°	37	4.34
85°	65	5.71
60°	92	4.23
30°	111	1.84
0°	124	.08

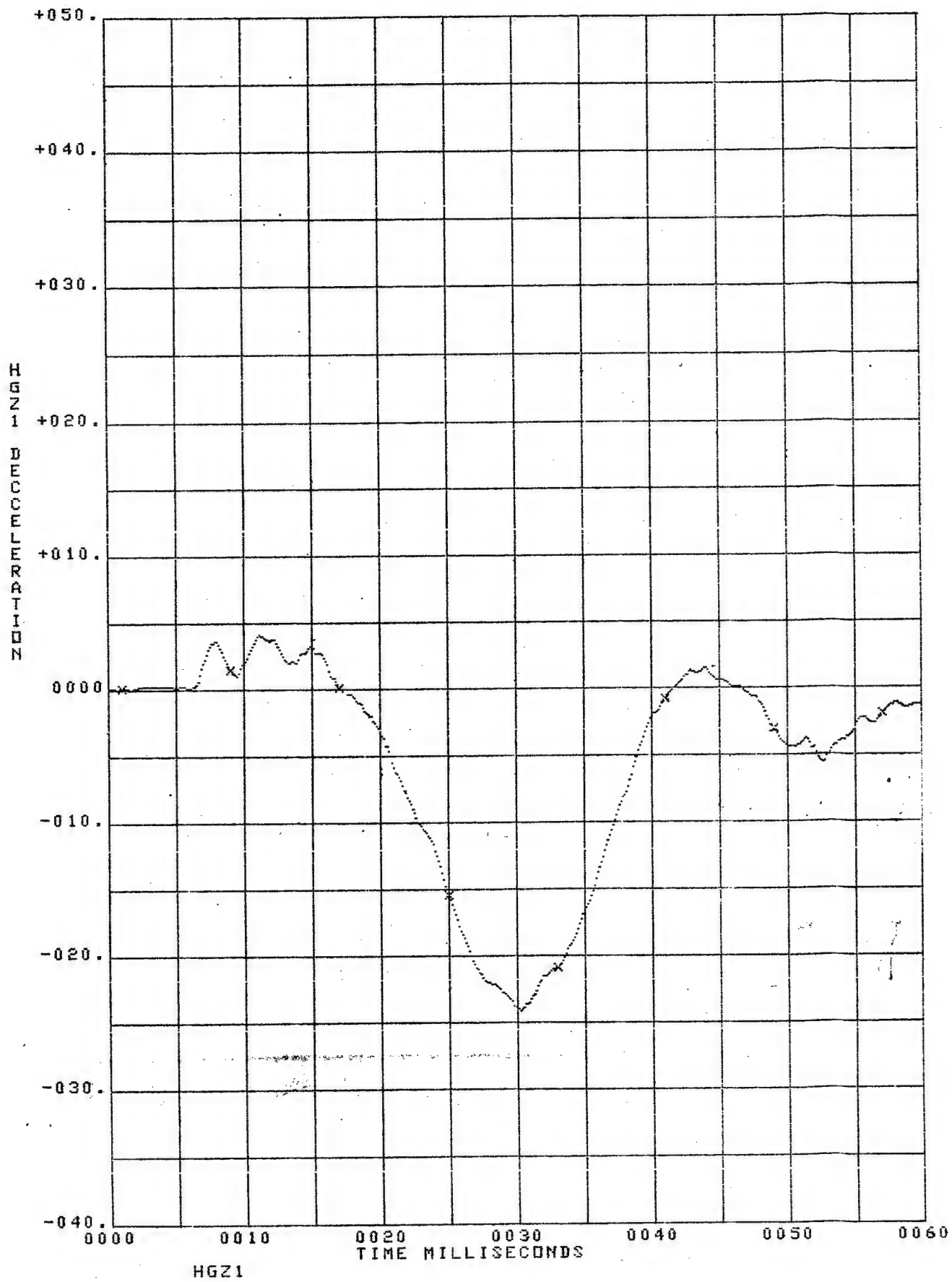
NECK PENDULUM
TEST N003



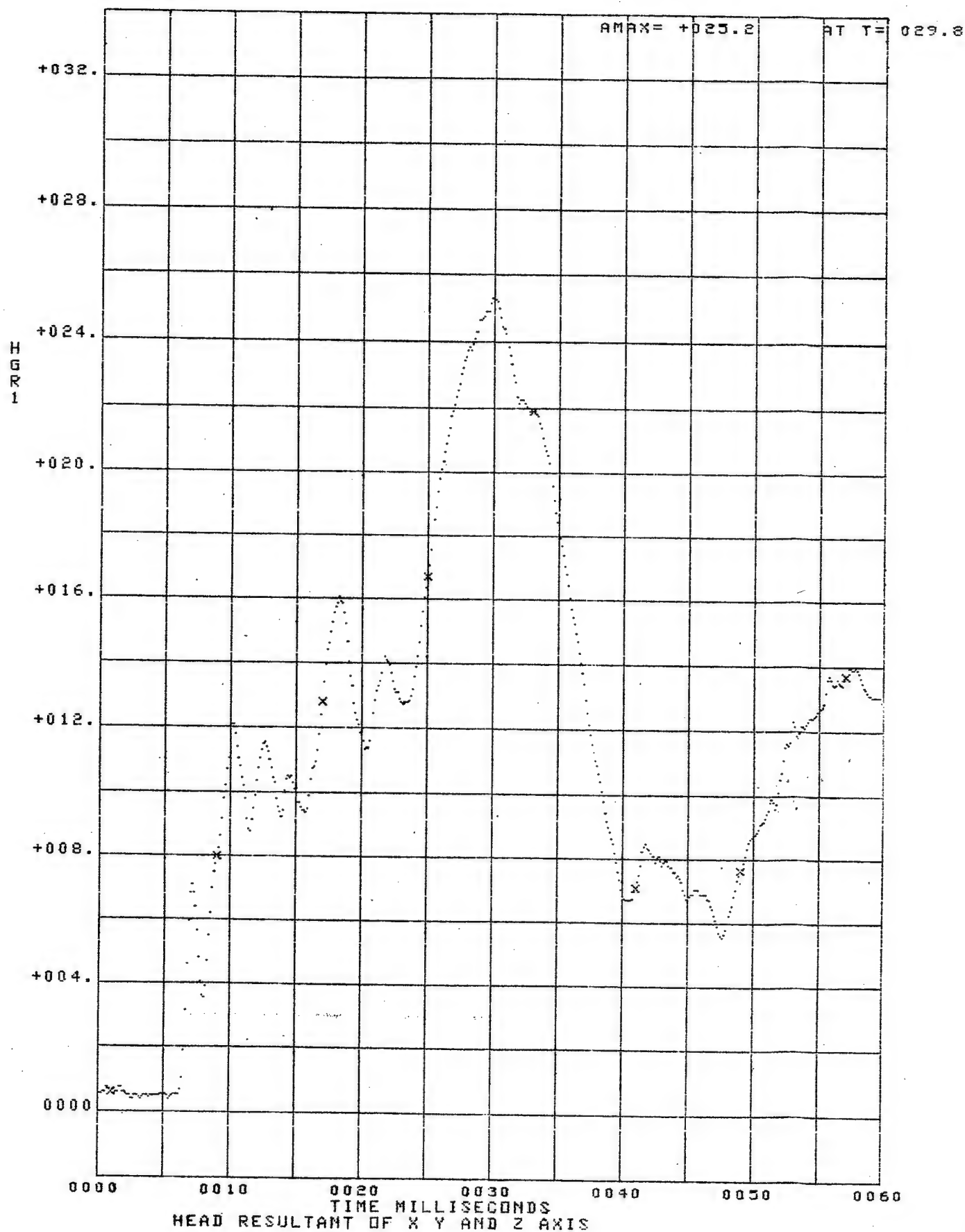
NECK PENDULUM
TEST N003

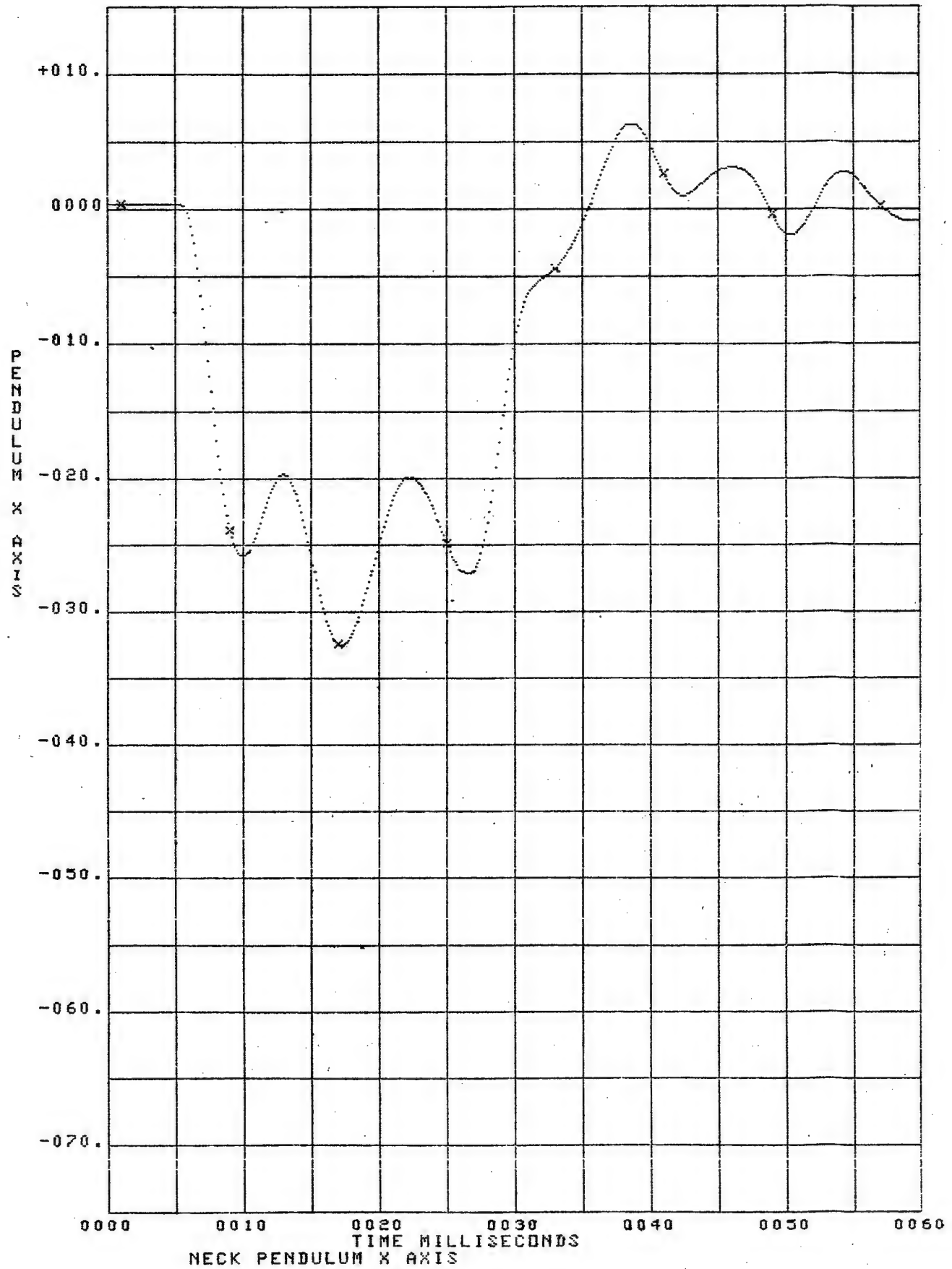


NECK PENDULUM
TEST N003



NECK PENDULUM
TEST N003





VARIABLE PAX1 N003

TIME					
0.0000	+000.1	+000.1	+000.1	+000.1	+000.1
0.6250	+000.1	+000.1	+000.1	+000.1	+000.1
1.2500	+000.1	+000.1	+000.1	+000.1	+000.1
1.8750	+000.1	+000.1	+000.1	+000.1	+000.1
2.5000	+000.1	+000.1	+000.1	+000.1	+000.1
3.1250	+000.1	+000.1	+000.1	+000.1	+000.1
3.7500	+000.1	+000.1	+000.1	+000.1	+000.1
4.3750	+000.1	+000.1	+000.1	+000.1	+000.1
5.0000	+000.1	+000.1	+000.1	+000.0	+000.0
5.6250	-000.1	-000.4	-000.9	-001.4	-002.1
6.2500	-002.7	-003.5	-004.4	-005.4	-006.5
6.8750	-007.5	-008.8	-010.1	-011.3	-012.5
7.5000	-013.7	-014.9	-016.1	-017.3	-018.4
8.1250	-019.4	-020.23	-021.37	-022.1	-022.9
8.7500	-023.4	-024.0	-024.5	-024.9	-025.2
9.3750	-025.5	-025.7	-025.9	-025.9	-025.9
10.0000	-025.8	-025.7	-025.6	-025.4	-025.1
10.6250	-024.8	-024.6	-024.2	-023.8	-023.4
11.2500	-023.0	-022.6	-022.3	-021.9	-021.5
11.8750	-021.1	-020.8	-020.5	-020.3	-020.1
12.5000	-019.9	-019.8	-019.8	-019.7	-019.8
13.1250	-019.9	-020.1	-020.4	-020.6	-021.0
13.7500	-021.3	-021.7	-022.1	-022.6	-023.1
14.3750	-023.7	-024.3	-024.9	-025.4	-026.0
15.0000	-026.5	-027.1	-027.8	-028.3	-028.8
15.6250	-029.3	-029.8	-030.3	-030.7	-031.0
16.2500	-031.4	-031.7	-032.0	-032.1	-032.3
16.8750	-032.5	-032.6	-032.6	-032.5	-032.4
17.5000	-032.3	-032.1	-032.0	-031.7	-031.4
18.1250	-031.1	-030.8	-030.4	-030.0	-029.6
18.7500	-029.2	-028.7	-028.3	-027.8	-027.4
19.3750	-027.0	-026.5	-026.0	-025.6	-025.1
20.0000	-024.6	-024.2	-023.7	-023.3	-022.9
20.6250	-022.4	-022.1	-021.8	-021.4	-021.1
21.2500	-020.8	-020.6	-020.4	-020.2	-020.1
21.8750	-020.0	-020.0	-020.1	-020.0	-020.0
22.5000	-020.1	-020.2	-020.4	-020.5	-020.6
23.1250	-020.8	-021.0	-021.3	-021.5	-021.8
23.7500	-022.1	-022.4	-022.7	-023.1	-023.4
24.3750	-023.7	-024.0	-024.4	-024.7	-025.0
25.0000	-025.2	-025.6	-025.9	-026.2	-026.3
25.6250	-026.6	-026.8	-027.0	-027.1	-027.1
26.2500	-027.2	-027.3	-027.3	-027.2	-027.1
26.8750	-026.9	-026.7	-026.5	-026.2	-025.7
27.5000	-025.2	-024.7	-024.1	-023.4	-022.6
28.1250	-021.8	-021.0	-020.731	-019.2	-018.2
28.7500	-017.3	-016.4	-015.4	-014.6	-013.7
29.3750	-012.8	-012.0	-011.3	-010.5	-009.9
30.0000	-009.3	-008.7	-008.2	-007.7	-007.4
30.6250	-007.0	-006.7	-006.5	-006.2	-006.0
31.2500	-005.8	-005.7	-005.6	-005.5	-005.4
31.8750	-005.3	-005.2	-005.1	-005.0	-005.0
32.5000	-004.9	-004.8	-004.7	-004.6	-004.4
33.1250	-004.3	-004.1	-003.9	-003.8	-003.6
33.7500	-003.4	-003.2	-003.0	-002.8	-002.5
34.3750	-002.3	-002.1	-001.8	-001.6	-001.3
35.0000	-001.0	-000.7	-000.4	-000.1	+000.1
35.6250	+000.4	+000.8	+001.2	+001.5	+001.8
36.2500	+002.1	+002.5	+002.8	+003.2	+003.5
36.8750	+003.8	+004.1	+004.3	+004.6	+004.9

VARIABLE	PAX1	N003				
37.5000		+005.1	+005.3	+005.5	+005.6	+005.8
38.1250		+005.9	+005.9	+006.0	+006.0	+006.0
38.7500		+005.9	+005.9	+005.8	+005.7	+005.5
39.3750		+005.3	+005.1	+004.9	+004.7	+004.4
40.0000		+004.2	+003.9	+003.6	+003.3	+003.1
40.6250		+002.8	+002.5	+002.3	+002.0	+001.8
41.2500		+001.6	+001.4	+001.2	+001.1	+000.9
41.8750		+000.9	+000.8	+000.7	+000.7	+000.7
42.5000		+000.7	+000.8	+000.9	+000.9	+001.0
43.1250		+001.1	+001.2	+001.3	+001.4	+001.5
43.7500		+001.6	+001.7	+001.8	+002.0	+002.1
44.3750		+002.1	+002.3	+002.3	+002.4	+002.5
45.0000		+002.6	+002.6	+002.7	+002.7	+002.8
45.6250		+002.8	+002.8	+002.8	+002.8	+002.8
46.2500		+002.8	+002.8	+002.8	+002.7	+002.6
46.8750		+002.5	+002.5	+002.3	+002.1	+002.0
47.5000		+001.9	+001.7	+001.5	+001.3	+001.2
48.1250		+000.8	+000.6	+000.3	+000.1	-000.1
48.7500		-000.3	-000.6	-000.9	-001.1	-001.3
49.3750		-001.5	-001.6	-001.8	-001.9	-002.0
50.0000		-002.1	-002.1	-002.1	-002.1	-002.0
50.6250		-001.9	-001.8	-001.7	-001.6	-001.4
51.2500		-001.3	-001.1	-000.9	-000.7	-000.4
51.8750		-000.3	-000.0	+000.1	+000.3	+000.6
52.5000		+000.8	+001.0	+001.3	+001.5	+001.7
53.1250		+001.8	+002.0	+002.1	+002.1	+002.3
53.7500		+002.3	+002.4	+002.5	+002.5	+002.5
54.3750		+002.5	+002.4	+002.3	+002.3	+002.1
55.0000		+002.0	+001.9	+001.8	+001.6	+001.5
55.6250		+001.3	+001.2	+001.0	+000.9	+000.7
56.2500		+000.6	+000.4	+000.3	+000.2	+000.1
56.8750		+000.0	-000.1	-000.2	-000.3	-000.4
57.5000		-000.5	-000.6	-000.7	-000.7	-000.8
58.1250		-000.9	-000.9	-001.0	-001.0	-001.0
58.7500		-001.1	-001.1	-001.1	-001.1	-001.1
59.3750		-001.1	-001.1	-001.0	-001.0	+000.0

3 yr. old NECK pendulum

TEST # N005

RELEASE hole # 9

" hgt. 84"

HEAD # 39

HEXCELL standard

RESULTS

HEXCELL CRUSHED TO

RESULTANT 25.3 G

T2 - T1 1.625 m.v.

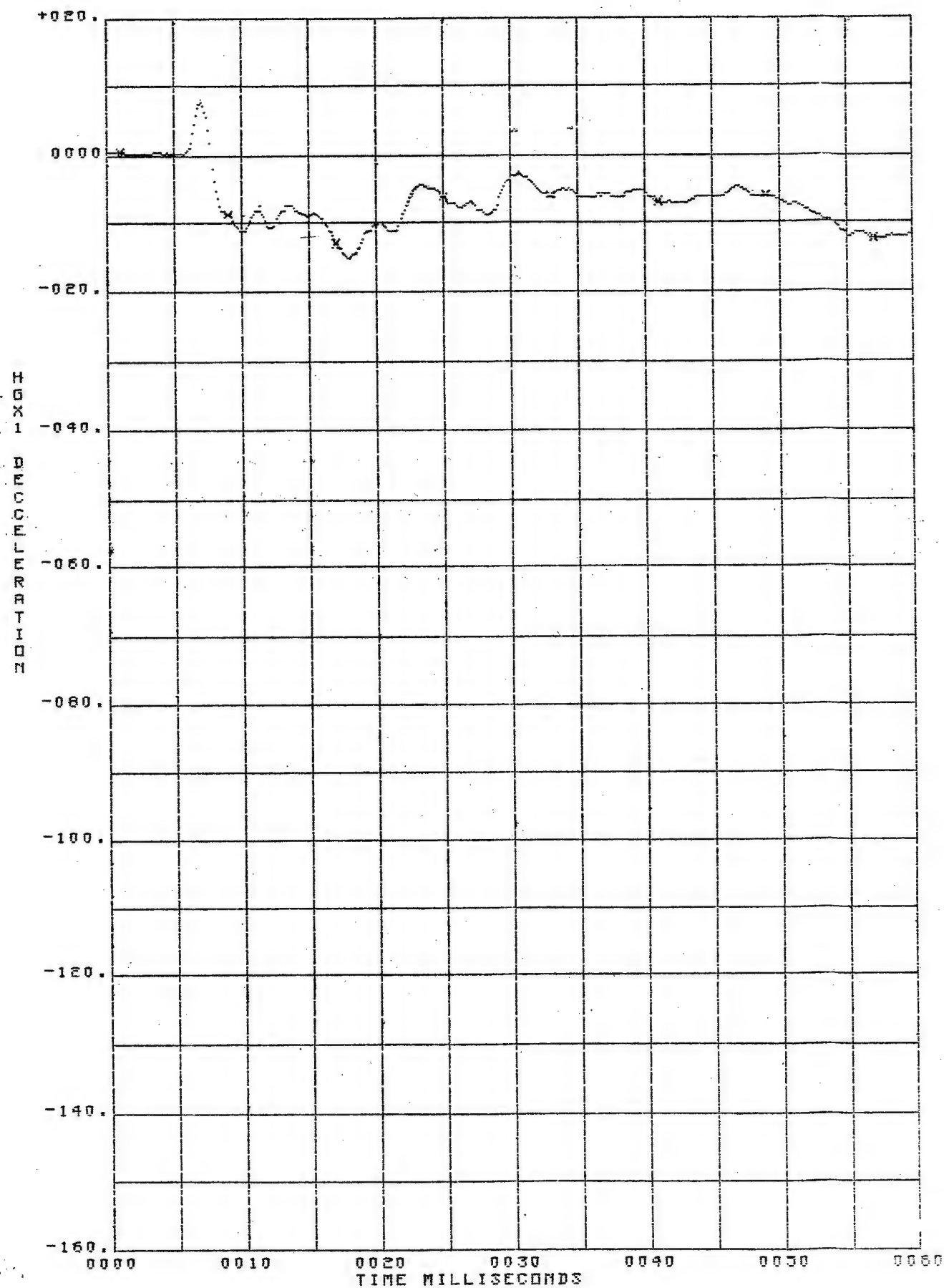
T3 - T2 19.625 m.v.

T4 - T3 3.625 m.v.

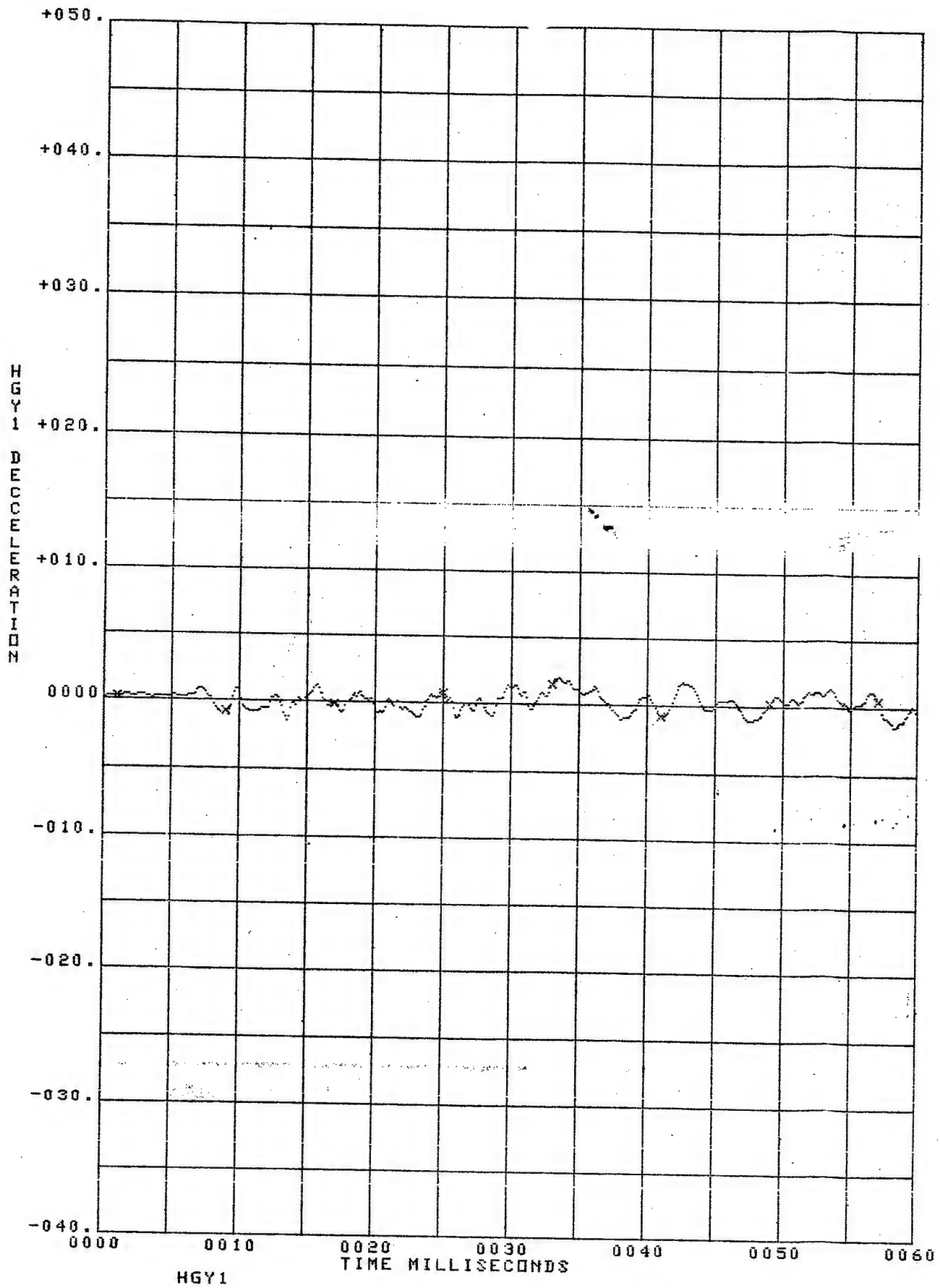
Ave T3-T2 25.259 G.

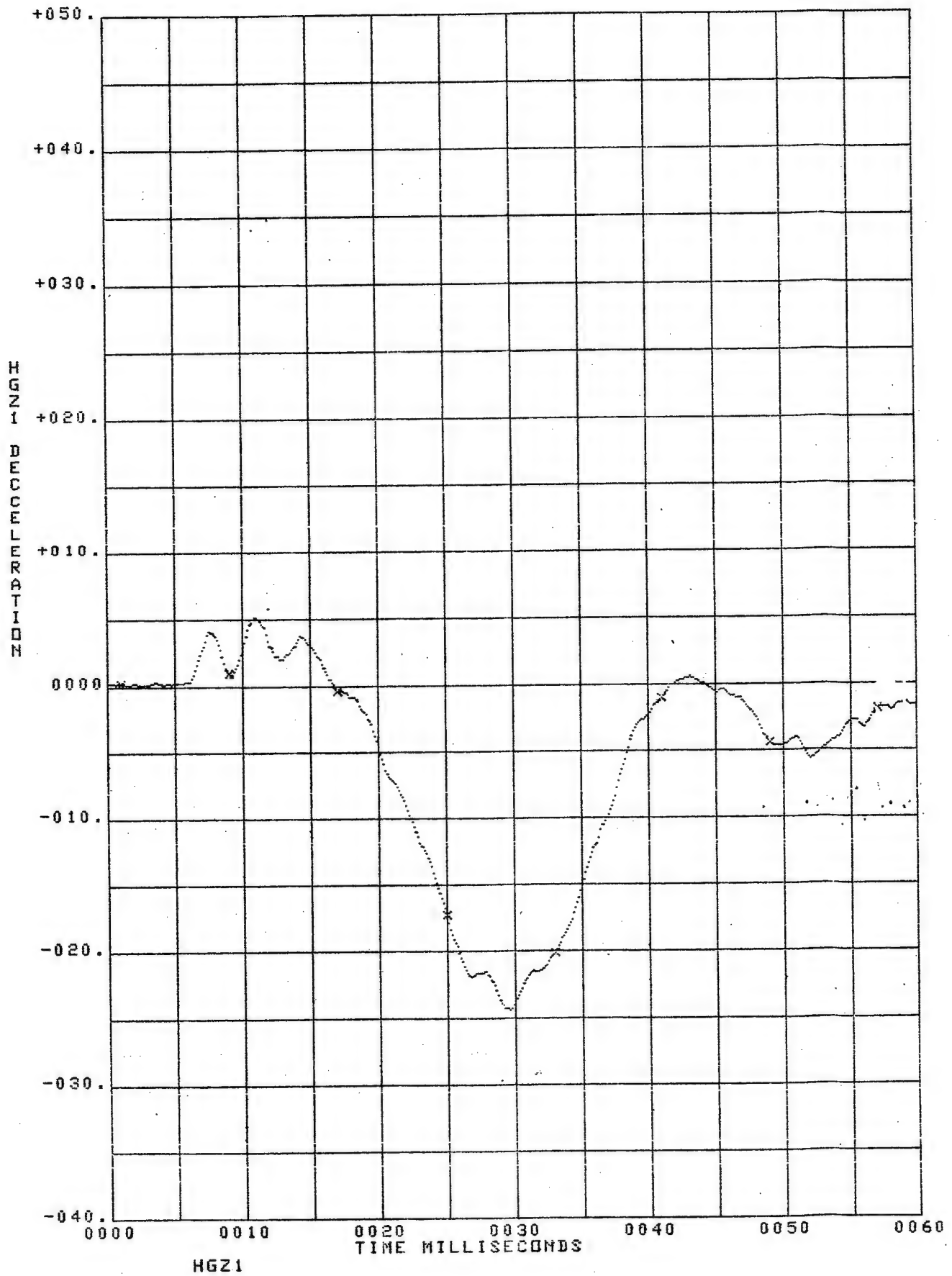
Rotation	Time	Disp
0°	0ms	0ins.
30°	22	2.32
60°	36	4.50
88 $\frac{1}{2}$ °	64	5.95
60°	95	4.35
30°	112	2.40
0°	128	.14

NECK PENDULUM
TEST N005

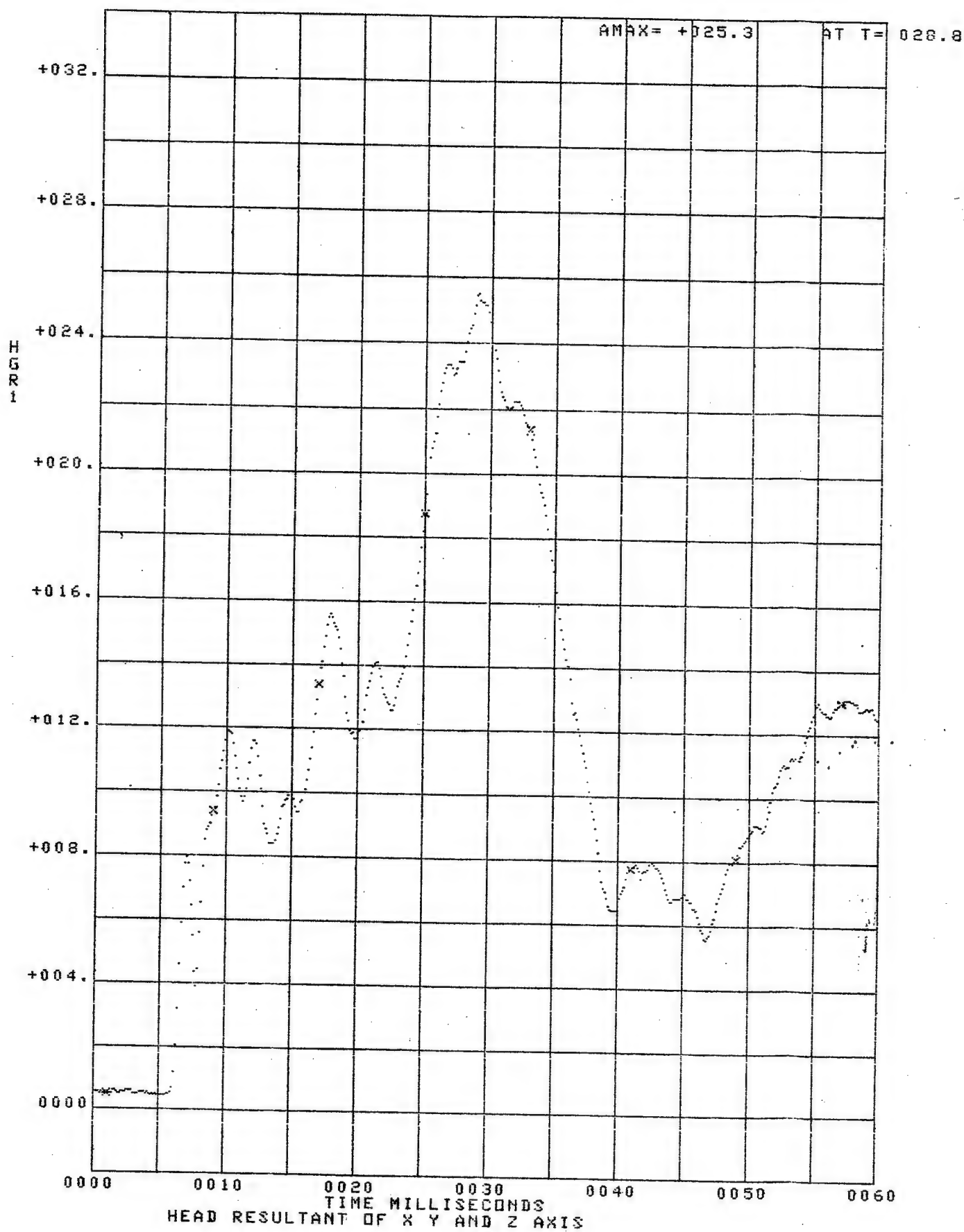


NECK PENDULUM
TEST N005

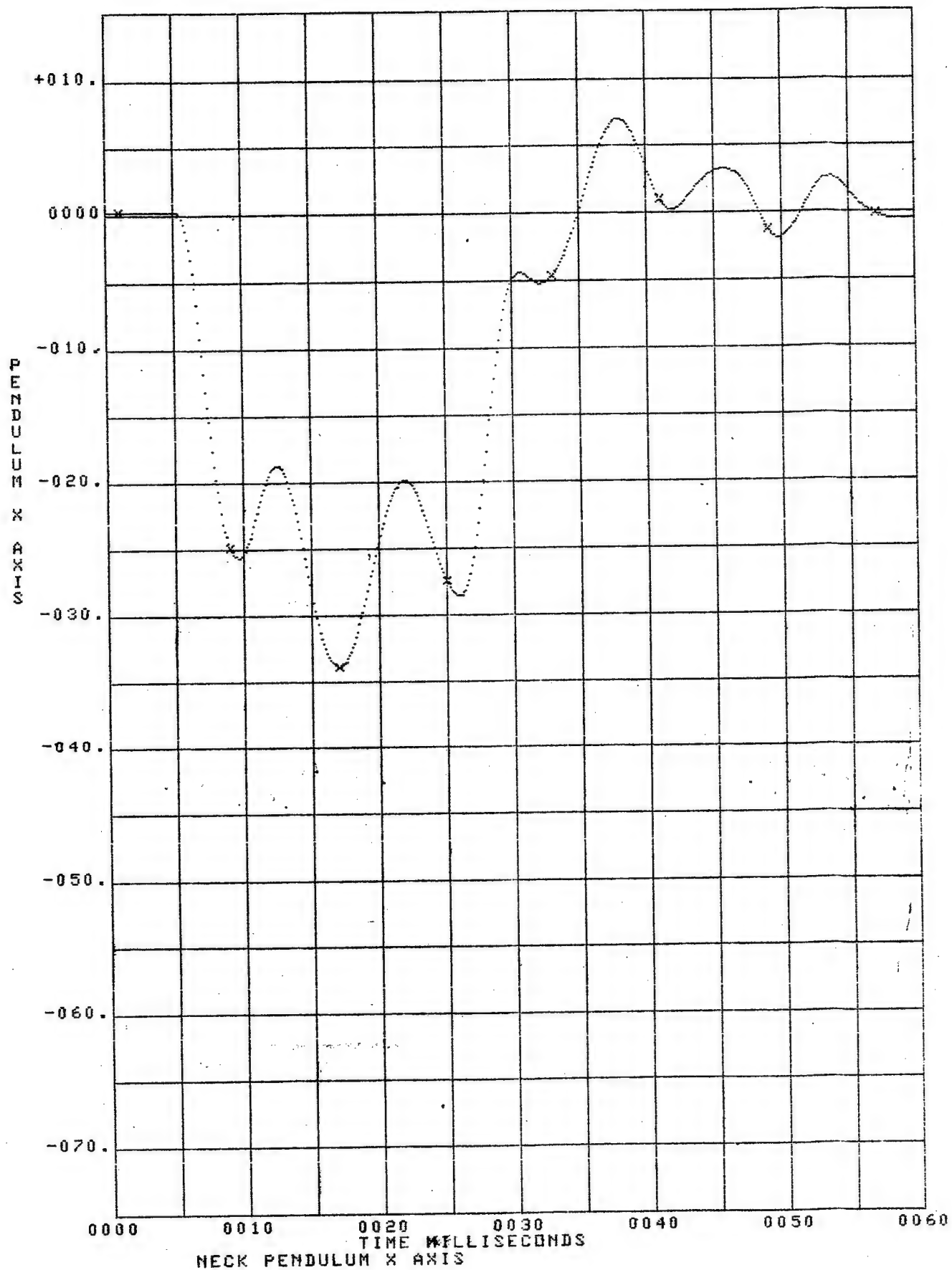




NECK PENDULUM
TEST N005



NECK PENDULUM
TEST N005



VARIABLE PAX1 N005

TIME					
0.0000	+000.0	+000.0	+000.0	+000.0	+000.0
0.6250	+000.0	+000.0	+000.0	+000.0	+000.0
1.2500	+000.0	+000.0	+000.0	+000.0	+000.0
1.8750	+000.0	+000.0	+000.0	+000.0	+000.0
2.5000	+000.0	+000.0	+000.0	+000.0	+000.0
3.1250	+000.0	+000.0	+000.0	+000.0	+000.0
3.7500	+000.0	+000.0	+000.0	+000.0	+000.0
4.3750	+000.0	+000.0	+000.0	+000.0	+000.0
5.0000	+000.0	+000.0	+000.0	+000.0	+000.0
5.6250	-000.8	-001.3	-001.9	-002.6	-003.5
6.2500	-004.5	-005.7 ^T	-006.8	-008.1	-009.3
6.8750	-010.6	-011.9	-013.2	-014.4	-015.6
7.5000	-016.7	-017.8	-018.9	-019.8	-020.2 ⁸⁷
8.1250	-021.6	-022.3	-023.1	-023.7	-024.2
8.7500	-024.6	-025.0	-025.3	-025.5	-025.6
9.3750	-025.6	-025.7	-025.8	-025.6	-025.4
10.0000	-025.2	-024.9	-024.7	-024.2	-023.8
10.6250	-023.4	-022.9	-022.4	-021.9	-021.5
11.2500	-021.0	-020.6	-020.2	-019.9	-019.6
11.8750	-019.3	-019.1	-019.0	-018.9	-018.9
12.5000	-018.9	-019.0	-019.2	-019.4	-019.6
13.1250	-020.0	-020.5	-020.9	-021.4	-021.8
13.7500	-022.3	-023.0	-023.6	-024.3	-025.0
14.3750	-025.7	-026.4	-027.1	-027.8	-028.5
15.0000	-029.1	-029.7	-030.3	-030.8	-031.3
15.6250	-031.8	-032.2	-032.5	-032.9	-033.2
16.2500	-033.5	-033.6	-033.8	-033.8	-033.9
16.8750	-033.9	-033.9	-033.9	-033.8	-033.6
17.5000	-033.3	-033.1	-032.8	-032.5	-032.2
18.1250	-031.7	-031.3	-030.8	-030.3	-029.9
18.7500	-029.4	-028.8	-028.3	-027.7	-027.2
19.3750	-026.7	-026.1	-025.6	-025.0	-024.5
20.0000	-024.1	-023.6	-023.1	-022.7	-022.3
20.6250	-021.9	-021.5	-021.2	-020.9	-020.6
21.2500	-020.5	-020.3	-020.1	-020.0	-020.0
21.8750	-020.0	-020.0	-020.1	-020.3	-020.4
22.5000	-020.6	-020.9	-021.2	-021.5	-021.9
23.1250	-022.2	-022.7	-023.0	-023.4	-023.8
23.7500	-024.2	-024.6	-025.0	-025.5	-025.8
24.3750	-026.2	-026.6	-026.9	-027.2	-027.5
25.0000	-027.8	-028.0	-028.2	-028.4	-028.5
25.6250	-028.6	-028.6	-028.6	-028.6	-028.4
26.2500	-028.2	-027.9	-027.5	-027.0	-026.4
26.8750	-025.8	-025.0	-024.1	-023.1	-022.2
27.5000	-021.1	-020.7 ^T	-018.9	-017.8	-016.7
28.1250	-015.6	-014.5	-013.4	-012.4	-011.4
28.7500	-010.4	-009.5	-008.7	-008.0	-007.3
29.3750	-006.7	-006.2	-005.8	-005.4	-005.1
30.0000	-005.0	-004.8	-004.6	-004.6	-004.6
30.6250	-004.6	-004.6	-004.7	-004.8	-004.9
31.2500	-005.0 ^T	-005.1	-005.1	-005.3	-005.3
31.8750	-005.4	-005.4	-005.3	-005.3	-005.3
32.5000	-005.2	-005.1	-005.0	-004.8	-004.6
33.1250	-004.5	-004.3	-004.0	-003.8	-003.6
33.7500	-003.3	-002.9	-002.6	-002.3	-002.0
34.3750	-001.7	-001.3	-000.9	-000.5	-000.1
35.0000	+000.2	+000.7	+001.0	+001.4	+001.9
35.6250	+002.3	+002.7	+003.1	+003.5	+003.8
36.2500	+004.2	+004.6	+004.9	+005.2	+005.5
36.8750	+005.7	+006.0	+006.1	+006.3	+006.5

VARIABLE	PAX1	N005				
37.5000		+006.6	+006.7	+006.8	+006.8	+006.8
38.1250		+006.6	+006.6	+006.5	+006.3	+006.1
38.7500		+005.9	+005.7	+005.4	+005.1	+004.8
39.3750		+004.5	+004.1	+003.8	+003.5	+003.1
40.0000		+002.7	+002.4	+002.1	+001.8	+001.4
40.6250		+001.1	+001.0	+000.7	+000.5	+000.3
41.2500		+000.2	+000.1	+000.0	+000.0	+000.0
41.8750		+000.0	+000.0	+000.1	+000.2	+000.3
42.5000		+000.4	+000.5	+000.7	+000.8	+001.0
43.1250		+001.1	+001.3	+001.4	+001.6	+001.7
43.7500		+001.8	+002.0	+002.1	+002.2	+002.3
44.3750		+002.4	+002.5	+002.6	+002.7	+002.8
45.0000		+002.8	+002.8	+002.9	+003.0	+003.0
45.6250		+003.0	+003.0	+003.0	+002.9	+002.8
46.2500		+002.8	+002.7	+002.7	+002.5	+002.4
46.8750		+002.3	+002.1	+001.9	+001.8	+001.6
47.5000		+001.3	+001.1	+000.8	+000.5	+000.3
48.1250		+000.0	-000.2	-000.5	-000.7	-001.0
48.7500		-001.2	-001.4	-001.6	-001.8	-001.9
49.3750		-002.0	-002.0	-002.0	-002.0	-002.0
50.0000		-001.9	-001.8	-001.7	-001.6	-001.4
50.6250		-001.3	-001.1	-000.9	-000.8	-000.5
51.2500		-000.3	-000.1	+000.0	+000.2	+000.5
51.8750		+000.7	+000.9	+001.1	+001.3	+001.5
52.5000		+001.7	+001.8	+001.9	+002.1	+002.2
53.1250		+002.2	+002.2	+002.2	+002.3	+002.3
53.7500		+002.2	+002.2	+002.1	+002.1	+002.0
54.3750		+001.9	+001.8	+001.6	+001.4	+001.3
55.0000		+001.1	+001.0	+000.8	+000.7	+000.6
55.6250		+000.4	+000.3	+000.2	+000.1	+000.0
56.2500		+000.0	-000.0	-000.2	-000.2	-000.2
56.8750		-000.3	-000.4	-000.5	-000.5	-000.5
57.5000		-000.5	-000.6	-000.7	-000.7	-000.7
58.1250		-000.7	-000.7	-000.7	-000.7	-000.7
58.7500		-000.7	-000.7	-000.7	-000.7	-000.7
59.3750		-000.7	-000.7	-000.7	-000.7	+000.0

3 yr. old neck pendulum

TEST # N008

RELEASE HOLE # 9

" hgt. 84"

HEAD # 39

HEXCELL STANDARD

RESULTS

HEXCELL CRUSHED TO

RESULTANT 25.8 G

T2 - T1 1.500 mv. D.

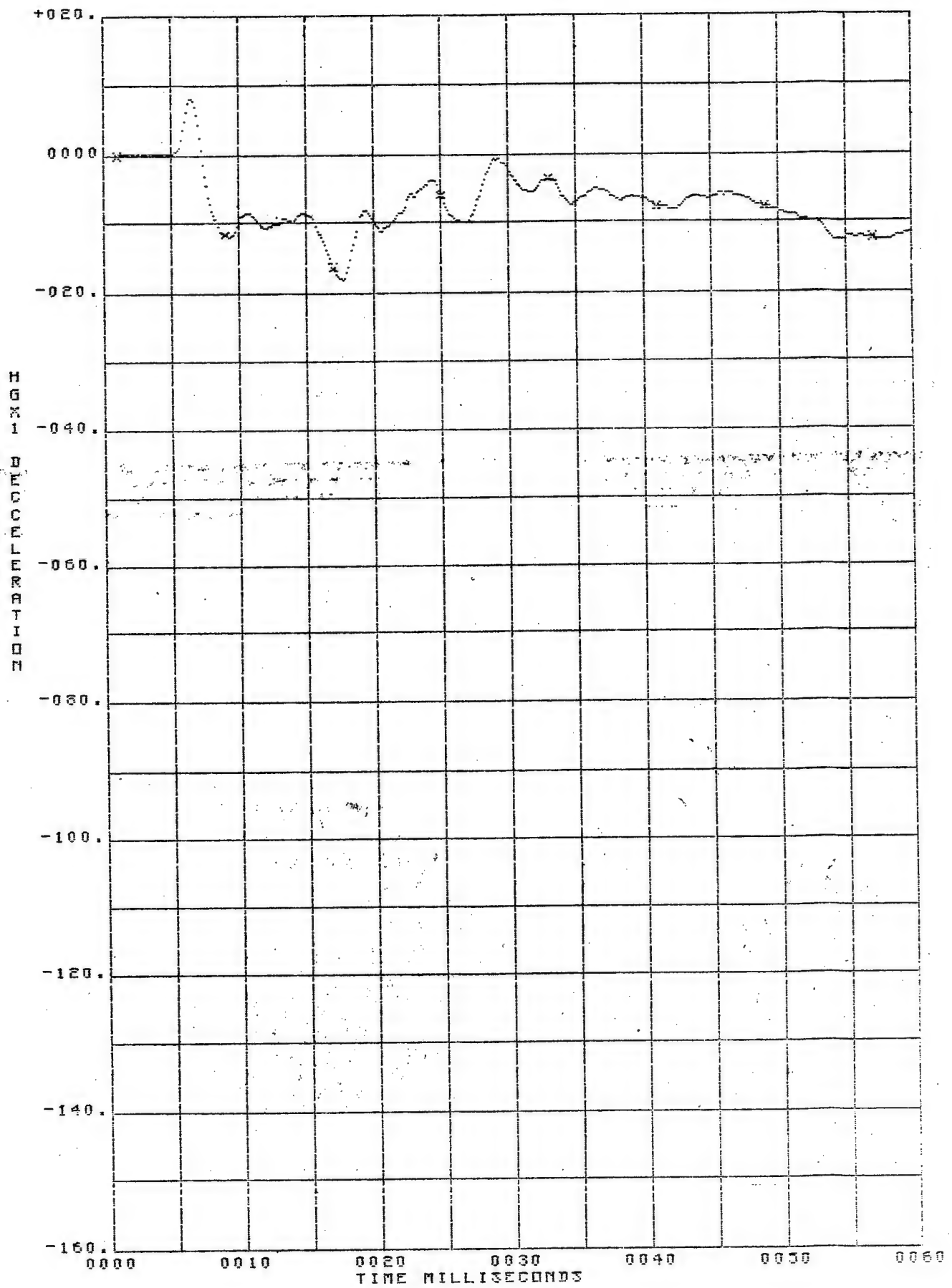
T3 - T2 19.250 mv. D.

T4 - T3 1.875 mv. D.

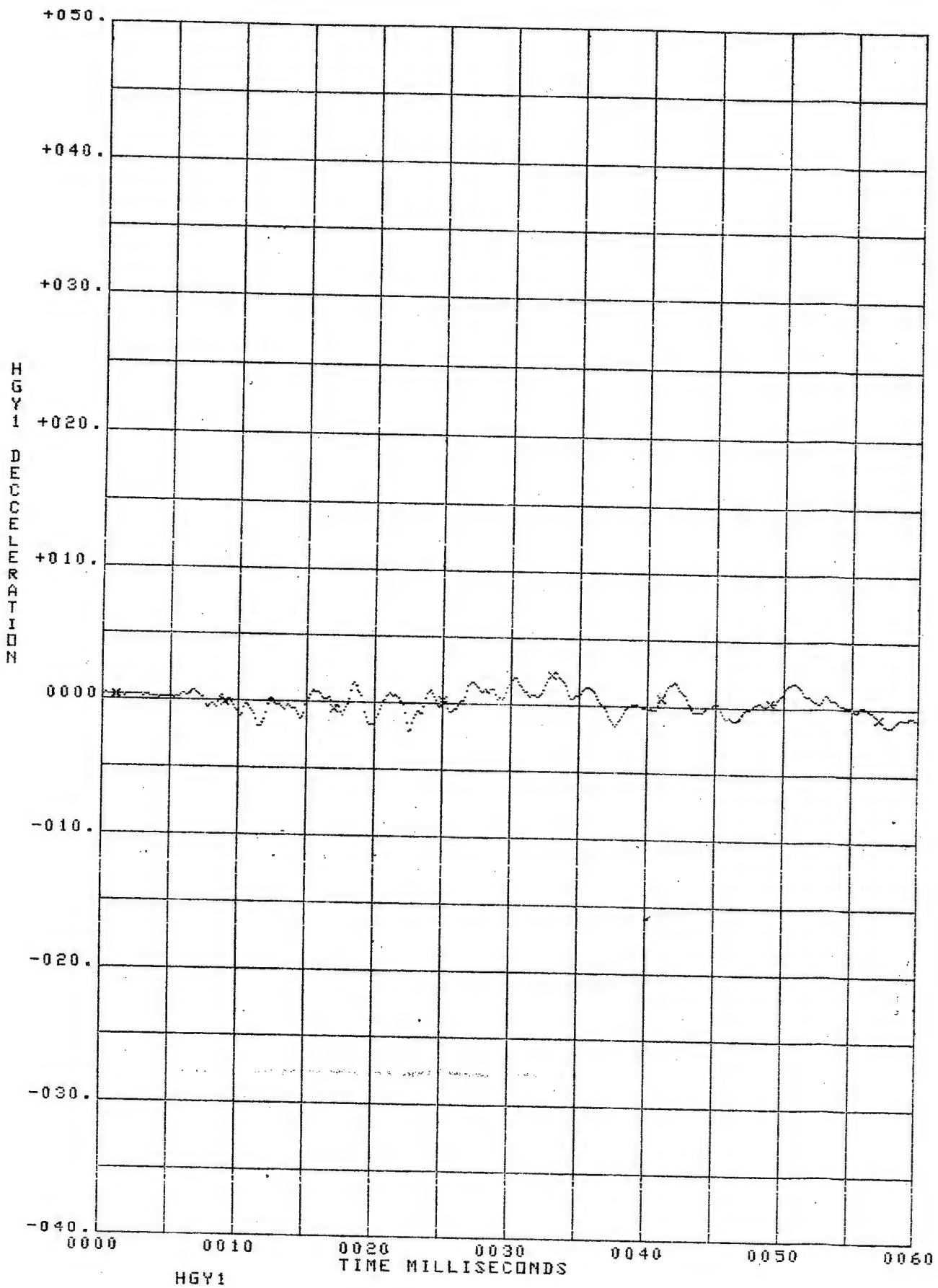
Ave T3-T2 25.987 G

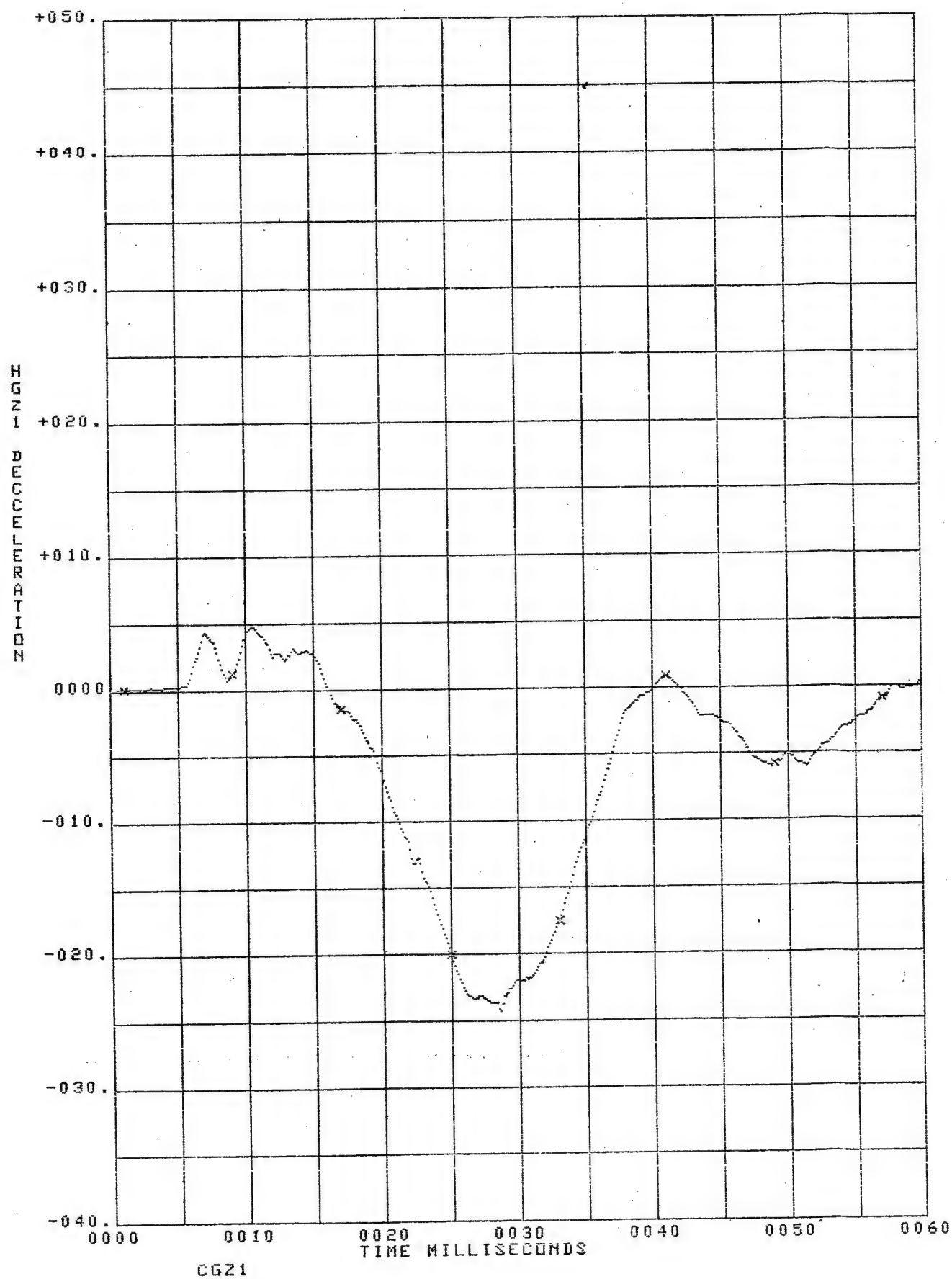
Rotation	Time	Disp
0°	0 ms	0 ins.
30°	22	2.36
60°	36	4.32
86½°	64	5.77
60°	96	4.07
30°	111	2.34
0°	127	.14

NECK PENDULUM
TEST N008

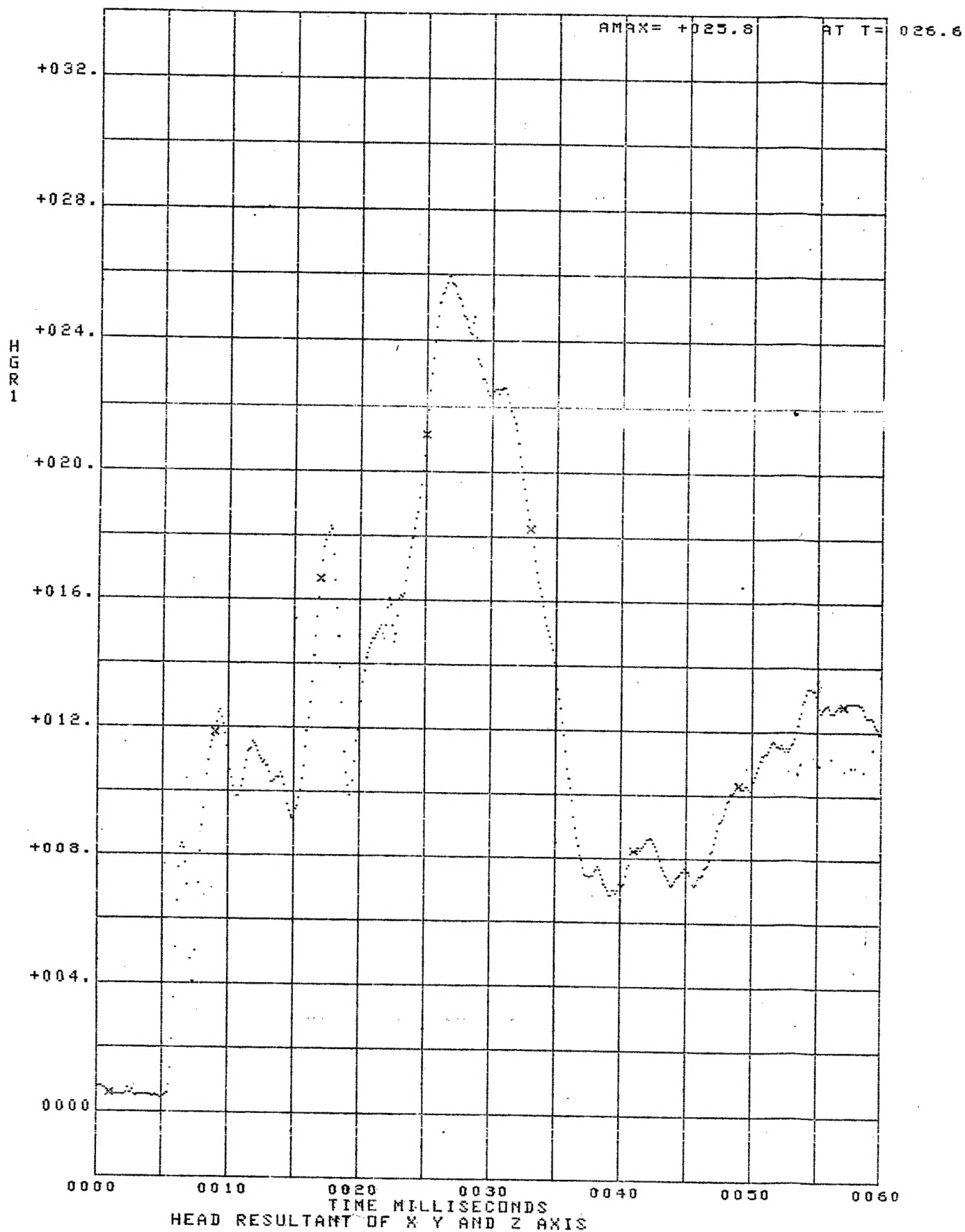


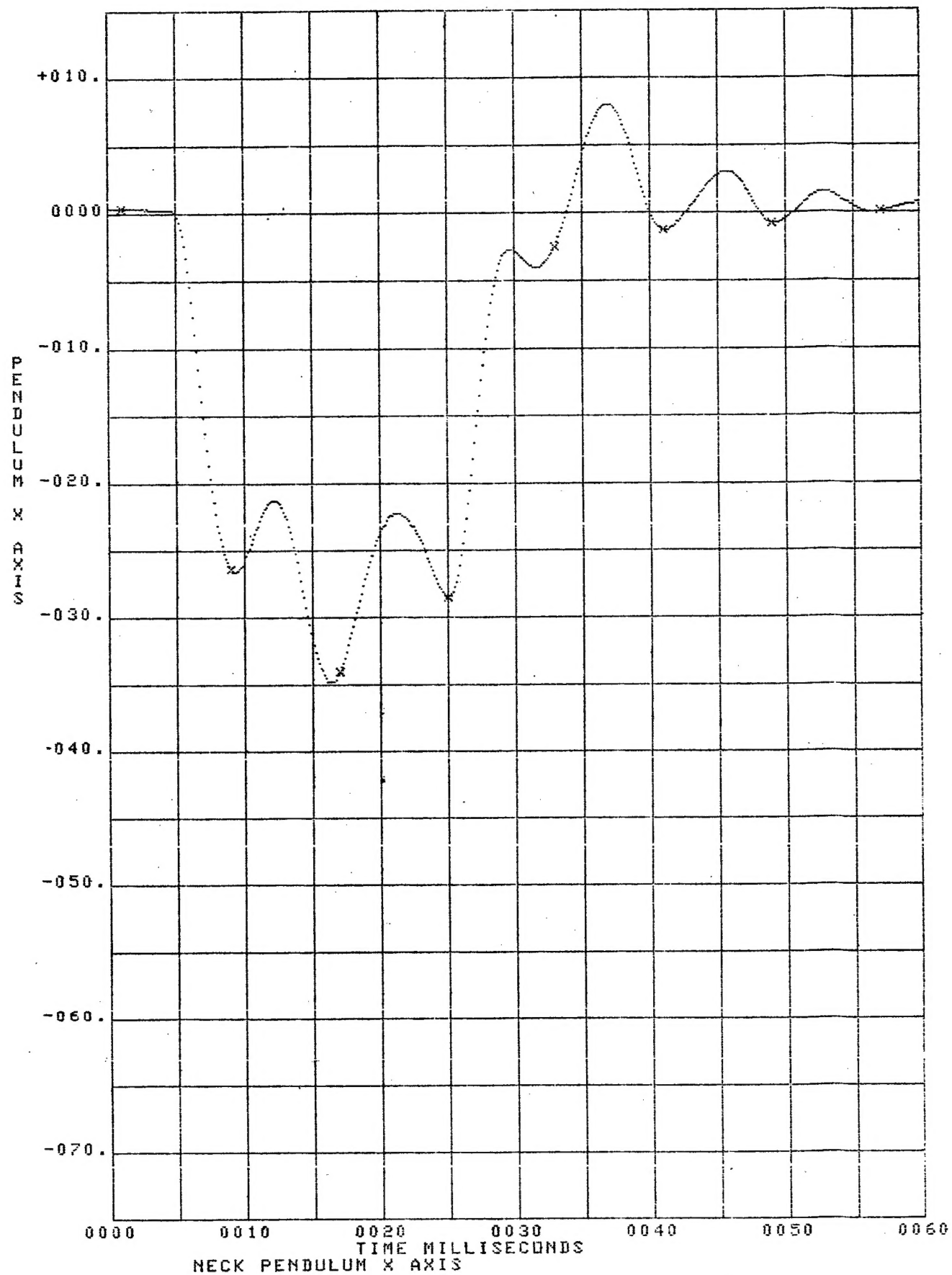
NECK PENDULUM
TEST N008





HECK PENDULUM
TEST N008





VARIABLE PAX1 N008

TIME					
0.0000	+000.2	+000.2	+000.2	+000.2	+000.2
0.6250	+000.2	+000.2	+000.1	+000.1	+000.1
1.2500	+000.1	+000.1	+000.1	+000.1	+000.1
1.8750	+000.1	+000.1	+000.1	+000.1	+000.1
2.5000	+000.1	+000.0	+000.1	+000.0	+000.0
3.1250	+000.0	+000.0	+000.0	+000.0	+000.0
3.7500	+000.0	+000.0	+000.0	+000.0	+000.0
4.3750	+000.0	+000.0	+000.0	+000.0	+000.0
5.0000	-000.4	-000.8	-001.3	-001.8	-002.6
5.6250	-003.4	-004.4	-005.5	-006.7	-007.8
6.2500	-009.0	-010.3	-011.6	-012.9	-014.0
6.8750	-015.3	-016.4	-017.6	-018.7	-019.7
7.5000	-020.6	-021.6	-022.4	-023.1	-023.8
8.1250	-024.3	-024.8	-025.3	-025.7	-026.0
8.7500	-026.3	-026.5	-026.7	-026.7	-026.7
9.3750	-026.6	-026.5	-026.4	-026.2	-026.0
10.0000	-025.5	-025.3	-025.0	-024.7	-024.2
10.6250	-023.8	-023.5	-023.2	-022.9	-022.5
11.2500	-022.2	-022.0	-021.9	-021.7	-021.5
11.8750	-021.4	-021.4	-021.4	-021.4	-021.5
12.5000	-021.6	-021.9	-022.2	-022.5	-022.8
13.1250	-023.2	-023.7	-024.3	-024.9	-025.4
13.7500	-026.0	-026.7	-027.4	-028.1	-028.6
14.3750	-029.3	-029.9	-030.6	-031.2	-031.6
15.0000	-032.1	-032.5	-033.1	-033.5	-033.8
15.6250	-034.0	-034.3	-034.6	-034.8	-034.9
16.2500	-034.9	-034.9	-034.8	-034.7	-034.4
16.8750	-034.1	-033.8	-033.5	-033.0	-032.6
17.5000	-032.1	-031.6	-031.2	-030.8	-030.3
18.1250	-029.7	-029.3	-028.8	-028.4	-027.8
18.7500	-027.3	-026.8	-026.4	-026.0	-025.5
19.3750	-025.1	-024.7	-024.4	-024.1	-023.8
20.0000	-023.4	-023.3	-023.1	-022.9	-022.7
20.6250	-022.5	-022.5	-022.4	-022.4	-022.3
21.2500	-022.3	-022.4	-022.5	-022.6	-022.7
21.8750	-022.7	-022.9	-023.1	-023.3	-023.4
22.5000	-023.6	-023.8	-024.1	-024.4	-024.7
23.1250	-025.0	-025.3	-025.7	-026.0	-026.4
23.7500	-026.6	-027.0	-027.3	-027.6	-027.8
24.3750	-028.0	-028.3	-028.5	-028.6	-028.6
25.0000	-028.5	-028.5	-028.2	-027.9	-027.5
25.6250	-026.9	-026.3	-025.5	-024.7	-023.8
26.2500	-022.7	-021.7	-020.6	-019.3	-018.3
26.8750	-017.1	-015.9	-014.8	-013.6	-012.5
27.5000	-011.4	-010.4	-009.4	-008.5	-007.6
28.1250	-006.8	-006.1	-005.5	-005.1	-004.4
28.7500	-004.0	-003.7	-003.4	-003.2	-003.0
29.3750	-002.9	-002.9	-002.9	-002.9	-003.0
30.0000	-003.1	-003.2	-003.4	-003.5	-003.6
30.6250	-003.7	-003.9	-004.0	-004.1	-004.1
31.2500	-004.2	-004.2	-004.2	-004.2	-004.2
31.8750	-004.0	-004.0	-003.9	-003.7	-003.6
32.5000	-003.4	-003.1	-002.9	-002.6	-002.3
33.1250	-002.0	-001.6	-001.3	-000.9	-000.5
33.7500	-000.0	+000.3	+000.7	+001.1	+001.6
34.3750	+002.1	+002.6	+003.0	+003.5	+003.9
35.0000	+004.4	+004.9	+005.3	+005.6	+006.0
35.6250	+006.3	+006.6	+006.9	+007.1	+007.3
36.2500	+007.5	+007.6	+007.7	+007.7	+007.7
36.8750	+007.7	+007.7	+007.6	+007.4	+007.2

VARIABLE	PAX1	N008				
37.5000		+007.1	+006.9	+006.6	+006.3	+005.9
38.1250		+005.6	+005.2	+004.8	+004.3	+003.8
38.7500		+003.4	+003.0	+002.5	+002.1	+001.6
39.3750		+001.2	+000.8	+000.4	+000.0	-000.2
40.0000		-000.4	-000.7	-000.9	-001.1	-001.2
40.6250		-001.4	-001.4	-001.5	-001.5	-001.5
41.2500		-001.4	-001.4	-001.2	-001.2	-001.0
41.8750		-000.9	-000.8	-000.7	-000.5	-000.3
42.5000		-000.2	-000.0	+000.0	+000.2	+000.3
43.1250		+000.5	+000.7	+000.9	+001.0	+001.2
43.7500		+001.3	+001.5	+001.7	+001.8	+001.9
44.3750		+002.1	+002.2	+002.3	+002.4	+002.5
45.0000		+002.5	+002.7	+002.7	+002.7	+002.8
45.6250		+002.8	+002.8	+002.7	+002.7	+002.6
46.2500		+002.5	+002.4	+002.2	+002.1	+001.9
46.8750		+001.7	+001.5	+001.3	+001.1	+000.8
47.5000		+000.7	+000.4	+000.2	+000.0	-000.1
48.1250		-000.3	-000.5	-000.7	-000.8	-000.8
48.7500		-000.9	-001.0	-001.0	-001.0	-000.9
49.3750		-000.9	-000.8	-000.8	-000.7	-000.6
50.0000		-000.5	-000.4	-000.3	-000.2	-000.1
50.6250		-000.0	+000.0	+000.2	+000.3	+000.4
51.2500		+000.5	+000.7	+000.8	+000.8	+001.0
51.8750		+001.0	+001.1	+001.1	+001.2	+001.2
52.5000		+001.3	+001.3	+001.3	+001.3	+001.2
53.1250		+001.2	+001.1	+001.1	+001.1	+001.0
53.7500		+000.9	+000.8	+000.8	+000.7	+000.7
54.3750		+000.5	+000.5	+000.4	+000.3	+000.2
55.0000		+000.2	+000.1	+000.0	+000.0	-000.0
55.6250		-000.0	-000.0	-000.1	-000.1	-000.1
56.2500		-000.1	-000.1	-000.1	-000.1	-000.1
56.8750		-000.0	-000.0	-000.0	-000.0	+000.0
57.5000		+000.0	+000.0	+000.0	+000.1	+000.1
58.1250		+000.2	+000.2	+000.2	+000.2	+000.3
58.7500		+000.3	+000.3	+000.4	+000.4	+000.4
59.3750		+000.4	+000.5	+000.5	+000.5	+000.0